

# Insects of the Galápagos (Supplement)

By

E. Gorton Linsley<sup>1</sup>

*Division of Entomology and Parasitology  
University of California, Berkeley, California 94720*

**ABSTRACT:** This publication is intended as a supplement to "Insects of the Galápagos Islands" by Linsley and Usinger (1966). Included are all references to Galápagos insects published between 1964 and 1974 which are known to the writer, together with some which have appeared subsequently. A few earlier references which were overlooked originally have also been incorporated. The format follows the 1966 treatment, except that when families, tribes, or genera have been extensively revised for the Galápagos fauna the new arrangement has been presented in full. Also, authors who have published significant subsequent information regarding Galápagos insects have been cited in either the generic or species treatments.

## INTRODUCTION

In 1964, the writer and the late Robert L. Usinger were among the entomologists privileged to visit the Galápagos Islands as members of the Galápagos International Scientific Project. Prior to participation in the Expedition we attempted to assemble as much of the literature pertinent to the Galápagos fauna as possible, and from this literature we compiled a list of the insects known from the archipelago at that time. We were subsequently encouraged to publish this list as a base for reporting discoveries made by members of the Expedition as well as specialists who studied their material. This was done (Linsley and Usinger 1966).

In the intervening years a substantial number of papers on galapagoan insects have been published, incorporating not only results from the Galápagos International Project but from other expeditions as well, including, for example, the Mission zoologique belge aux îles Galapagos et en Ecuador (Narcisse et Jeanore Leleup, 1964-1965), the Edinburgh University Galápagos Expedition (1968), and collections by various individuals (Robert Silberglied, 1970; Roger Perry and T. de Vries, 1967-71) and others.

The present supplement conforms to the policy utilized in the original list, in that no unpublished records are included and no inde-

pendent judgement has been passed upon the taxonomic treatment of Galápagos species. However, in cases where families, tribes, or genera have been extensively revised for the island fauna, the new arrangement has been presented, thus replacing the comparable section in the original list. References to revisions have also been listed under the appropriate taxonomic category and new records for individual islands have been included and added to previously recorded ranges.

The abbreviations of scientific publications generally follow the "BIOSIS list of serials with coden, title abbreviations, new, changed and ceased titles" (BioSciences Information Service of Biological Abstracts), and complete citations to most of the pertinent older references not here given may be found in the 1966 paper.

It is too much to hope that the supplement will be fully complete for the period 1964-1974, because of the long delay in the appearance of traditional bibliographic reference works. However, if it is reasonably complete and useful to those who are concerned with island faunas and the Galápagos in particular, its purpose will have been served.

I have utilized the official Ecuadorian names in the species lists with one exception. Local residents, Ecuadorian scientists and scientific and popular publications using non-English names almost universally refer to "Santa María" as "Floreana," and I have followed this usage here as we did in the original 1966 list.

<sup>1</sup> Research Associate, Department of Entomology, California Academy of Sciences.

OFFICIAL ECUADORIAN NAMES AND OTHER  
NAMES USED FOR THE VARIOUS ISLANDS  
OF THE GALÁPAGOS

ALBANY  
BALTRA = South Seymour  
BARTOLOME = Bartholomew  
BEAGLE  
CALDWELL  
CHAMPION  
COWLEY  
CROSSMAN = Los Hermanos  
DAPHNE  
DARWIN = Guerra, Culpepper  
EDEN  
ENDERBY  
ESPAÑOLA = Hood  
FERNANDINA = Narborough, Plata  
GARDNER (near Charles [Santa María])  
GARDNER (near Hood [Española])  
GENOVESA = Tower, Ewres  
GUY FAWKES  
ISABELA = Albemarle, Santa Gertrudis  
MARCHENA = Bindloe, Torres  
NAMELESS (Isla sin Nombre)  
ONslow  
PLAZA  
PINTA = Abingdon, Geraldino  
PINZÓN = Dean, Duncan  
RÁBIDA = Jervis  
SAN CRISTÓBAL = Chatham, Dassigney, Grande  
SAN SALVADOR = James, Olmedo, Santiago,  
Gil, York  
SANTA CRUZ = Indefatigable, Bolivia, Norfolk,  
Porter, Valdez, Chávez, San Clemente  
SANTA FÉ = Barrington  
SANTA MARÍA = Floreana, Charles  
SEYMOUR = North Seymour  
TORTUGA = Brattle  
WATSON  
WOLF = Wenman, Nunez, Gasna

ACKNOWLEDGMENTS

The writer is indebted to the many scientists who responded to his request for reprints of articles treating Galápagos insects and for additions and corrections to the 1966 list, including Paul H. Arnaud, Jr., Department of Entomology, California Academy of Sciences, San Francisco; Peter D. Ashlock, Department of

Entomology, University of Kansas, Lawrence; P. Basilewsky, Musée Royal de l'Afrique Centrale, Tervuren; A. Brindle, Entomology Department, Manchester Museum, University of Manchester; J. A. Chemsak, Division of Entomology and Parasitology, University of California, Berkeley; Theresa Clay, Department of Entomology, British Museum (Natural History), London; K. V. Lakshminarayana, Zoological Survey of India, Calcutta; E. C. Pelham-Clinton, Department of Natural History, Royal Scottish Museum, Edinburgh; J. A. Powell, Division of Entomology and Parasitology, University of California, Berkeley; and F. G. A. M. Smit, British Museum (Natural History), Tring. For reading and commenting on various portions of the manuscript, appreciation is expressed to Paul D. Hurd, Jr., Chairman, Department of Entomology, National Museum of Natural History, Washington, D. C. and scientists in the Department, including R. W. Baumann, J. F. G. Clarke, R. E. Crabill, D. R. Davis, W. D. Duckworth, T. L. Erwin, W. D. Field, O. S. Flint, Jr., R. C. Froeschner, K. V. Krombein and P. J. Spangler; and to Lloyd Knutson, Chairman, Insect Identification and Beneficial Insect Introduction Institute, Agricultural Research Service, U. S. Department of Agriculture, Beltsville, Maryland, and the following members of the Systematic Entomology Laboratory located at the National Museum of Natural History, Washington, D. C.: D. C. Ferguson, R. J. Gagné, R. D. Gordon, A. B. Gurney, J. L. Herring, R. W. Hodges, J. M. Kingsolver, J. P. Kramer, P. M. Marsh, A. S. Menke, K. O. O'Neill, D. R. Smith, T. J. Spilman, G. C. Steyskal, F. C. Thompson, E. L. Todd, R. E. Warner and W. W. Wirth. Especial thanks are due Robert Silberglied, Biological Laboratories, Harvard University who offered encouragement to produce the supplement and called attention to relevant publications which might otherwise have been missed.

## SYSTEMATIC LISTING

## Order ORTHOPTERA

## Family ACRIDIDAE

(Ref.: Dirsh 1969)

Genus *Schistocerca*

- melanocera** Stål, 1860, Freg. Eugenies Resa, Zool. 1, Insecta: 326 (Acridium); Dirsh 1969, Bull. Br. Mus. (Nat. Hist.) Entomol. 23: 31, pl. 1, text-figs. 1-12, map 1; Dirsh 1974, Ser. Entomol. (The Hague) 10: 113, fig. 21, pl. 18.  
*minor* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 421 (*S. melanocera* var.).  
*pallida* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 422 (*S. melanocera* var.).  
*lineata* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 423 (*S. melanocera* var.).  
*immaculata* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 423 (*S. melanocera* var.).  
*intermedia* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 431.  
*borealis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 435 (*S. intermedia* var.).
- literosa** Walker, 1870, Cat. Derm. Salt. Br. Mus. 4: 620; Dirsh 1969, Bull. Br. Mus. (Nat. Hist.) Entomol. 23: 35 pl. 2, map I, graph I, text-figs. 13-24; Dirsh 1974, Ser. Entomol. (The Hague) 10: 122, pl. 19.  
*discoidalis* Scudder, 1893, Bull. Mus. Comp. Zool. Harv. Coll. 25: 16 (*S. literosa* subsp.).  
*punctata* Scudder, 1893, Bull. Mus. Comp. Zool. Harv. Coll. 25: 16.  
*hyalina* Scudder, 1893, Bull. Mus. Comp. Zool. Harv. Coll. 25: 16.
- Genus *Halmenus***
- choristopterus** Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 450; Dirsh 1969, Bull. Br. Mus. (Nat. Hist.) Entomol. 23: 41, text-fig. 27.
- cuspidatus** Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 450; Dirsh 1969, Bull. Br. Mus. (Nat. Hist.) Entomol. 23: 39; text-figs. 26, 40-43.
- eschatus** Hebard, 1920, Proc. Calif. Acad. Sci., ser 4, 2: 329; Dirsh 1969, Bull. Br. Mus. (Nat. Hist.) Entomol. 23: 42, pl. 3, text-figs. 44-51.
- robustus** Scudder, 1893, Bull. Mus. Comp. Zool. Harv. Coll. 25: 18; Dirsh 1969, Bull. Br. Mus. (Nat. Hist.) Entomol. 23: 39, pl. 2, text-figs. 29-39.

Genus *Desmopleura*

- concinna** Scudder, 1893, Bull. Mus. Comp. Zool. Harv. Coll. 25: 19, pl. 2, figs. 2, 4; Dirsh 1969, Bull. Br. Mus. (Nat. Hist.) Entomol. 23: 43, pl. 4, text-figs. 52-59.

Genus *Closteridea*

- bauri** Scudder, 1893, Bull. Mus. Comp. Zool. Harv. Coll. 25: 9, figs.; Isabela, San Cristóbal  
Dirsh 1969, Bull. Br. Mus. (Nat. Hist.) Entomol. 23: 44, pl. 5,  
text-figs. 60-65.

Genus *Sphingonotus*\*

- fuscoirroratus** Stål, 1860, Freg. Eugenies Resa, Zool. 1, Insecta: 345; Baltra, Española,  
Sjöstedt 1932, Ark. Zool., ser. A, 24(1): 23; Dirsh 1969, Bull. Br. Floreana,  
Mus. (Nat. Hist.) Entomol. 23: 47, pl. 6, text-figs. 67-70. Gardner (nr. Española),  
*trinesiotis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 439. Isabela, Pinta, Rábida,  
*chathamensis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 439 (*S.* San Cristóbal,  
*trinesiotis* var.). Santa Cruz, Santa Fé,  
*indefatigabilensis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 441 San Salvador, Seymour  
(*S. trinesiotis* var.).  
*albemarlensis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 443 (*S.*  
*trinesiotis* var.).  
*tetranesiotis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 444.  
*charlesensis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 444 (*S.*  
*tetranesiotis* var.).  
*barringtonensis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 445  
(*S. tetranesiotis* var.).  
*hoodensis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 446 (*S.*  
*tetranesiotis* var.).  
*indefatigabilensis* Snodgrass, 1902, Proc. Wash. Acad. Sci. 4: 447  
(*S. tetranesiotis* var.).

## Family TETTIGONIIDAE

Genus *Nesoecia*

- cooksonii** Butler, 1877, Proc. Zool. Soc. Lond. 1877: 87 (*Agracia*); Floreana, Genovesa,  
Linsley and Usinger 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 123 Isabela, San Salvador  
(*Liparoscelis*); Parkin et al. 1972, Pan-Pac. Entomol. 48: 102.

## Order BLATTARIA

## Family BLATTIDAE

Genus *Pycnoscelus*

- surinamensis** Linnaeus, 1767, Systema Naturae, ed. 12: 687 Floreana, Isabela,  
(*Blatta*). Santa Cruz

## Order DERMAPTERA

(Ref.: Brindle 1969)

## Family CARCINOPHORIDAE

Genus *Anisolabis*

- maritima** Bonelli, 1832 in Génée, Ann. Sci. Nat. Regno Lomb. Veneto Cosmopolitan; Galápagos:  
2: 224. Floreana, San Cristóbal,  
San Salvador

\* In utilizing Stål's name, I have followed the stated policy of reporting the nomenclature and taxonomic conclusions of the most recent revisor. However, specialists in the Orthoptera may wish to decide whether or not the restrictions of the type-locality of *Oedipoda fuscoirrorata* to Puna Island, Ecuador by Snodgrass (1902: 437) was legal and binding under the International Rules of Zoological Nomenclature and thus whether or not the selection of a lectotype from "Galápagos Is." by Dirsh (1969: 46) is acceptable and valid.



Genus **Euborellia**

- annulipes** Lucas, 1847, Bull. Soc. Entomol. Fr. 15: 84 (*Forficesila*).  
*bormansi* Scudder, 1893, Bull. Mus. Comp. Zool. Harv. Coll. 25:  
 8, figs. (*Anisolabis*).  
 Cosmopolitan; Galápagos:  
 Floreana, Isabela,  
 San Cristóbal, Santa Cruz

Genus **Anophthalmolabis**

- leleupi** Brindle, 1968, Mission zool. belge Galapagos Ecuador 1: 172. Santa Cruz

## Family LABIIDAE

Genus **Labia**

- arcuata** Scudder, 1876, Proc. Boston Soc. Nat. Hist. 18: 257.  
 South America; Central  
 America; Galápagos:  
 Santa Cruz

## Order PSOCOPTERA

(Ref.: Thornton and Woo 1973)

## Family LEPIDOPSOCIDAE

Genus **Echmepteryx**

- aperta** Thornton and Woo, 1973, Pac. Insects 15: 7, figs. 1-6 (sub-  
 genus *Loxopholia*).  
 Floreana, Isabela,  
 Santa Cruz  
**lunulata** Thornton, Lee and Chui, 1972, Insects Micronesia 8: 64  
 (subgenus *Thylacopsis*); Thornton and Woo 1973, Pac. Insects  
 15: 6 (subgenus *Thylacopsis*).  
 Micronesia; Hawaii;  
 Galápagos: Floreana,  
 Isabela, Pinta, San  
 Salvador, Santa Cruz  
**madagascariensis** Kolbe, 1885, Berl. Entomol. Z. 59: 184 (*Thylax*);  
 Thornton and Woo 1973 Pac. Insects 15: 7 (subgenus *Thylacop-*  
*sis*).  
 Circum-Pacific and  
 trans-Pacific; Africa;  
 Galápagos: Floreana,  
 Isabela, San Cristóbal,  
 Santa Cruz  
*costalis* Banks, 1931, Proc. Hawaii. Entomol. Soc. 7: 439.  
*albidus* Badonnel, 1949, Rev. Fr. Entomol. 16: 25 (*Thylacopsis*).

Genus **Lepidopsocus**

- maculatus** Thornton, Lee and Chui, 1972, Insects Micronesia 8: 68;  
 Thornton and Woo 1973, Pac. Insects 15: 8.  
 Micronesia; Hawaii;  
 Galápagos: Fernandina,  
 Floreana, Genovesa,  
 Isabela, Pinzón, San  
 Cristóbal, Santa Cruz

Genus **Nepticulomima**

- cavagnaroi** Thornton and Woo, 1973, Pac. Insects 15: 9, figs. 7-11. Santa Cruz

Genus **Soa**

- reticulata** Thornton and Woo, 1973, Pac. Insects 15: 11, figs. 12-16. Santa Cruz

## Family TROGIIDAE

Genus **Cerobasis**

- lambda** Thornton and Woo, 1973, Pac. Insects 15: 16, figs. 22, 26,  
 27.  
 Pinzón, San Cristóbal,  
 San Salvador  
**recta** Thornton and Woo, 1973, Pac. Insects 15: 17, figs. 28-29.  
 San Salvador  
**reptica** Thornton and Woo, 1973, Pac. Insects 15: 12, figs. 17-25.  
 Galápagos: widespread

## Family PSOQUILLIDAE

Genus **Psoquilla**

- marginepunctata** Hagen, 1865, Entomol. Mon. Mag. 2: 123; Thornton and Woo, 1973, Pac. Insects 15: 19. Santa Cruz  
*dispar* Verrill, 1902, Trans. Conn. Acad. Arts Sci. 11: 817 (*Heteropsocus*).

Genus **Rhyopsocus**

- orthatus** Thornton and Woo, 1973, Pac. Insects 15: 19, figs. 30–35. Santa Cruz

## Family LIPOSCELIDAE

Genus **Embidopsocus**

- pauliani** Badonnel, 1955, Publ. Cult. Cia. Diamantes Angola 26: 78; Africa; Galápagos:  
 Thornton and Woo 1973, Pac. Insects 15: 21. San Cristóbal  
**thorntoni** Badonnel, 1971, Nouv. Rev. Entomol. 1: 325. Santa Cruz

Genus **Liposcelis**

- entomophilus** Enderlein, 1907, Stettiner Entomol. Z. 68: 34 Cosmopolitan; Galápagos:  
 (*Troctes*); Thornton and Woo 1973, Pac. Insects 15: 21. Pinzón  
*bakeri* Pearman, 1928, Entomol. Mon. Mag. 64: 133.  
*virgulatus* Pearman, 1929, Entomol. Mon. Mag. 65: 106.

## Family PACHYTROCTIDAE

Genus **Tapinella**

- francesca** Thornton and Woo, 1973, Pac. Insects 15: 22, pls. a-c, Pinta, San Cristóbal  
 figs. 36–38.  
**stenomedia** Thornton and Woo, 1973, Pac. Insects 15: 23, figs. 39– Santa Cruz  
 41.

Genus **Pachytroctes**

- achrosta** Thornton and Woo, 1973, Pac. Insects 15: 24, pls. d-e, Santa Cruz  
 figs. 42–43 (subgenus *Neotroctes*).

## Family EPIPSOCIDAE

Genus **Epipsocus**

- campanulatus** Thornton and Woo, 1973, Pac. Insects 15: 25, figs. Santa Cruz  
 44–47.

## Family CAECILIIDAE

Genus **Caecilius**

- antillanus** Banks, 1938, Rev. Entomol. (Rio de J.) 9: 288; Thornton and Woo 1973, Pac. Insects 15: 27. Florida and West Indies to NE South America;  
 Galápagos: Floreana, San Cristóbal  
**distinctus** Mockford, 1966, Trans. Am. Entomol. Soc. 92: 137; Southern Mexico to  
 Thornton and Woo 1973, Pac. Insects 15: 27. northern South America;  
 Galápagos: San Cristóbal  
**insularum** Mockford, 1966, Trans. Am. Entomol. Soc. 92: 157; Florida and West Indies to  
 Thornton and Woo 1973, Pac. Insects 15: 27. NE South America;  
 Galápagos: Isabela, Santa Cruz, San Salvador

## Family LACHESILLIDAE

Genus *Lachesilla*

- aethiopica** Enderlein, 1902, Mitt. Zool. Mus. Berl. 2: 11 (*Pterodela pedicularia aethiopica*); Thornton and Woo 1973, Pac. Insects 15: 28. Africa, Central America, South America; Galápagos: Floreana, Santa Cruz, San Salvador
- castroi** Thornton and Woo, 1973, Pac. Insects 15: 28, figs. 48-54. Galápagos: widespread

## Family ECTOPSOCIDAE

Genus *Ectopsocus*

- maindroni** Badonnel, 1935, Rev. Fr. Entomol. 2: 81; Thornton and Woo 1973, Pac. Insects 15: 31. Cosmopolitan; Galápagos: Genovesa, Isabela, San Cristóbal, Santa Cruz
- cryptomeriae* Jentsch, 1939, Zool. Jahrb. Abt. Syst. Oekol. Geogr. Tiere, 73: 111.
- meridionalis** Ribaga, 1904, Redia 1: 294 (*E. briggsi meridionalis*); Thornton and Woo 1973, Pac. Insects 15: 31. Cosmopolitan; Galápagos: widespread
- tridentatus* Thornton, 1962, Pac. Insects 4: 300.
- richardsi** Pearman, 1929, Entomol. Mon. Mag. 65: 105 (*Chaetopsocus*); Thornton and Woo 1973, Pac. Insects 15: 32. Cosmopolitan; Santa Cruz
- species, Thornton and Woo, 1973, Pac. Insects 15: 32. Galápagos: widespread

## Family PERIPSOCIDAE

Genus *Peripsocus*

- pauliani** Badonnel, 1949, Rev. Fr. Entomol. 16: 42; Thornton and Woo 1973, Pac. Insects 15: 32. Cosmopolitan; Galápagos: widespread
- potosi** Mockford, 1971, J. N. Y. Entomol. Soc. 92: 110; Thornton and Woo 1973, Pac. Insects 15: 33. Mexico; West Indies; Central America; Galápagos: widespread
- species, Thornton and Woo, 1973, Pac. Insects 15: 33. Isabela
- stagnivagus** Chapman, 1930, J. N. Y. Entomol. Soc. 38: 376. Cosmopolitan; Galápagos: widespread

## Family PSEUDOCAECILIIDAE

Genus *Pseudocaecilius*

- criniger** Perkins, 1899, Fauna Hawaiiensis, Psocidae 2: 85 (*Elipsocus*); Thornton and Woo 1973, Pac. Insects 15: 34. Cosmopolitan; Galápagos: Floreana, Isabela, Pinta, Santa Cruz, San Salvador
- elutus* Enderlein, 1903, Zool. Anz. 41: 261.
- africanus* Badonnel, 1931, Ann. Sci. Nat. Zool. Biol. Anim., ser. 10, 14: 230 (*P. elutus africanus*).
- tahitiensis** Karny, 1926, Bull. Entomol. Res. 16: 288 (*Epipsocus*); Thornton and Woo 1973, Pac. Insects 15: 34. Micronesia; Tahiti; Galápagos: Isabela, Rábida, San Cristóbal, Santa Cruz, San Salvador, Seymour

## Family ARCHIPSOCIDAE

Genus *Archipsocus*

- spinus** Thornton, Lee and Chui, 1972, Insects Micronesia 8: 126 (subgenus *Archipsocus*); Thornton and Woo 1973, Pac. Insects 15: 35 (subgenus *Archipsocus*). Micronesia; Galápagos: Isabela, Pinta, San Cristóbal, Santa Cruz, Tortuga

## Family PHILOTARSIDAE

Genus *Aaroniella*

- galapagensis* Thornton and Woo, 1973, Pac. Insects 15: 35, figs. 55–63. Floreana, Hood, Isabela, San Cristóbal, San Salvador, Santa Cruz

## Family PSOCIDAE

Genus *Blaste*

- uncinata* Thornton and Woo, 1973, Pac. Insects 15: 38, figs. 64–71. Floreana, Isabela, San Salvador, Santa Cruz, Seymour

Genus *Ptyeta*

- acraea* Thornton and Woo, 1973, Pac. Insects 15: 41, figs. 72–76. Floreana, Isabela, Pinzón, San Cristóbal, San Salvador
- dentata* Thornton and Woo, 1973, Pac. Insects 15: 44, figs. 77–82. Galápagos: widespread
- marta* Thornton and Woo, 1973, Pac. Insects 15: 47, figs. 83–90. Floreana, San Cristóbal, Santa Cruz, Wolf

## Family MYOPSOCIDAE

Genus *Myopsocus*

- chelatus* Thornton and Woo, 1973, Pac. Insects 15: 50, figs. 91–96. Floreana, Hood, Isabela, San Cristóbal, Santa Cruz, Santa Fé, San Salvador

## Order EMBIOPTERA

## Family ANISEMBIIDAE

(Ref.: Ross 1966)

Genus *Chelicerca*

- galapagensis* Ross, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 501, fig. 1. Pinzón, Santa Cruz, Wolf

## Order MALLOPHAGA

## Suborder AMBLYCERA

## Family MENOPONIDAE

Genus *Austromenopon*

- ?*albemarlei* Kellogg and Kuwana, 1902, Proc. Wash. Acad. Sci. 4: 488, pl. 31, fig. 5 (*Menopon*); Price and Clay 1972, Ann. Entomol. Soc. Am. 65: 501 [*incertae sedis*]. Isabela
- popellus* Piaget, 1890, Tijdschr. Entomol. 33: 251, pl. 10, fig. 5 (*Menopon*); Price and Clay 1972, Ann. Entomol. Soc. Am. 65: 491, fig. 24. Galápagos: widespread

## Family RICINIDAE

Genus *Ricinus*

- marginatus* Children, 1836 in Back, Arctic Land Expedition, p. 539 (*Physostomum*); Nelson 1972, Univ. Calif. Publ. Entomol. 68: 74. Isabela
- angulatus* Kellogg, 1896, Proc. Calif. Acad. Sci., ser. 2, 6: 515, pl. 70, fig. 5 (*Physostomum*).

## Suborder ISCHNOCERA

## Family PHILOPTERIDAE

Genus **Docophoroides****irroratus** Timmermann, 1962, Z. Parasitenkd. 21: 435.

Galápagos: widespread

Genus **Halipeurus****noctivagus** Timmermann, 1960, Z. Parasitenkd. 20: 331, fig. 13.

Galápagos: widespread

## Order ODONATA

## Family COENAGRIONIDAE

(Ref.: Gloger 1964; Turner 1967)

Genus **Anomalagrion****hastatum** Say, 1839, J. Acad. Nat. Sci. Phila. 8: 38 (*Agrion*); Gloger 1964, Opusc. Zool. (Muench.) 74: 3-4; Turner 1967, Pan-Pac. Entomol. 43: 285-287, 290.

Isabela, San Cristóbal, San Salvador, Santa Cruz

## Family AESCHNIDAE

Genus **Aeschna****galapagoensis** Currie, 1901, Proc. Wash. Acad. Sci. 3: 382, figs. 29, 30.

Isabela, San Cristóbal, Santa Cruz

Genus **Anax****amazili** Burmeister, 1839, Handb. Entomol. 2: 841 (*Aeschna*).

Floreana, San Cristóbal, Santa Cruz

## Family LIBELLULIDAE

Genus **Pantala****flavescens** Fabricius, 1798, Supplementum Entomologiae Systematicae, p. 285 (*Libellula*).

Baltra, Floreana, Isabela, San Cristóbal, Santa Cruz

**hymenaea** Say, 1839, J. Acad. Nat. Sci. Phila. 8: 18, (*Libellula*).

Floreana, Isabela

Genus **Tramea****physa darwini** Kirby, 1889, Trans. Zool. Soc. Lond. 12: 315, pl. 51, fig. 1.

Española, Floreana, Isabela, San Cristóbal, Santa Cruz

Genus **Brachymesia****herbida** Gundlach, 1889, Contrib. Entomol. Cubana 2: 261 (*Libellula*).

Isabela

**batesii** Kirby, 1889, Trans. Zool. Soc. Lond. 12: 341, pl. 53, fig. 1, pl. 57, fig. 9 (*Cannacria*).**fumipennis** Currie, 1901, Proc. Wash. Acad. Sci. 3: 387, figs. 31-34 (*Cannacria*).

## Order THYSANOPTERA

(Ref.: Bailey 1967)

## Family THIRIPIDAE

Genus **Franklinella****rodeos** Moulton, 1933, Rev. Entomol. (Rio de J.) 3: 115; Bailey 1967, Pan-Pac. Entomol. 43: 203.South America;  
Galápagos: Pinzón,  
Santa Cruz



Genus **Scolothrips**

- pallidus** Beach, 1896, Proc. Iowa Acad. Sci. 3: 226 (*Thrips*); Priesner 1950, Bull. Soc. Fouad I<sup>er</sup> Entomol. 34: 43-45; Bailey 1967, Pan-Pac. Entomol. 43: 204. North America; Galápagos: Santa Cruz

## Family PHLAETHRIPIDAE

Genus **Haplothrips**

- gowdeyi** Franklin, 1908, Proc. U. S. Natl. Mus. 33: 724 (*Anthothrips*); Bailey 1967, Pan-Pac. Entomol. 43: 205. Tropicopolitan; Galápagos: Pinzón
- sonorensis** Stannard, 1956, Proc. Biol. Soc. Wash. 69: 25 (subgenus *Xyaplothrips*); Bailey 1967, Pan-Pac. Entomol. 43: 206. Western North America; Galápagos: Santa Cruz
- species, Bailey, 1967, Pan-Pac. Entomol. 43: 205. Santa Cruz

Genus **Hoplothrips**

- angusticeps** Hood, 1908, Bull. Ill. State Lab. Nat. Hist. 8: 367 (*Trichothrips*); Moulton and Andre 1936, Iowa State Coll. J. Sci. 10: 230; Bailey 1967, Pan-Pac. Entomol. 43: 206 (*Phlaeothrips*); Stannard 1968, Ill. Nat. Hist. Surv. Bull. 29: 455. Eastern North America; Galápagos: Santa Cruz

Genus **Idiothrips**

- floridanus** Hood, 1938, Rev. Entomol. (Rio de J.) 8: 394 (*Arcyothrips*); Stannard 1957, Ill. Biol. Monogr. 25: 58; Bailey 1967, Pan-Pac. Entomol. 43: 207. Southeastern North America; Galápagos: Santa Cruz

## Family UROTHRIPIDAE

Genus **Amphibolothrips**

- astutus** Cott, 1956, Univ. Calif. Publ. Entomol. 13: 196, pl. 2, fig. k, pl. 4, fig. b (*Trachythrips*); Bailey 1967, Pan-Pac. Entomol. 43: 207. Southwestern North America; Galápagos: South Plaza

## Order HEMIPTERA

## Family CYDNIDAE

(Ref.: Froeschner 1968)

Genus **Dallasiellus**

- murinus** Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, 21: 26 (*Geotomus*). Fernandina, Floreana, Isabela, San Cristóbal, Santa Cruz

Genus **Melanaethus**

- subglaber** Walker, 1867, Cat. Heteropterous-Hemiptera Br. Mus. 1: 150 (*Aethus*). Marchena (?)

## Family LYGAEIDAE

(Ref.: Ashlock 1972)

Genus **Nysius**

- usitatus** Ashlock, 1972, Proc. Calif. Acad. Sci., ser. 4, 39: 89, figs. 1, 3. Santa Cruz

Genus **Ortholomus**

- usingeri** Ashlock, 1972, Proc. Calif. Acad. Sci., ser. 4, 39: 91, figs. 1, 3. Floreana, San Cristóbal, Santa Cruz

Genus **Darwinysius**

- marginalis** Dallas, 1852, List Hemiptera Br. Mus. 2: 556 (?*Nysius*).  
*galapagensis* Stål, 1859, Freg. Eugenies Resa, Zool. 1, Insecta:  
 252 (*Cymus*). Daphne Major,  
 Fernandina, Floreana,  
 Isabela, Pinzón, Rábida,  
 San Salvador, Santa Cruz  
 Wolf
- wenmanensis** Ashlock, 1972, Proc. Calif. Acad. Sci., ser. 4, 39: 95,  
 figs. 2, 3.

Genus **Xyonysius**

- naso** Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, 21: 27 (*Ny-  
 sius* (*Ortholomus*)); Ashlock 1972, Proc. Calif. Acad. Sci., ser. 4,  
 39: 97, figs. 2, 3. Floreana, Fernandina,  
 Isabela, Santa Cruz,  
 Santa Fé

Genus **Cymoninus**

- notabilis** Distant, 1882, Biologia Centrali-Americana, Rhynchota,  
 Hemiptera-Heteroptera, 1: 191 (*Ninus*); Ashlock 1972, Proc.  
 Calif. Acad. Sci., ser. 4, 39: 97, figs. 3, 4. Western Hemisphere;  
 Galápagos: Santa Cruz

Genus **Pachybrachius**

- insularis** Barber, 1925, Zoologica 5: 246 (*Orthaea*); Ashlock 1972,  
 Proc. Calif. Acad. Sci., ser. 4, 39: 98, fig. 5. Baltra, Fernandina,  
 Floreana, Isabela, San  
 Salvador, Santa Cruz
- nesovinctus** Ashlock, 1972, Proc. Calif. Acad. Sci., ser. 4, 39: 98,  
 figs. 4, 5. Fernandina, Santa Cruz

Genus **Heraeus**

- pacificus** Barber, 1925, Zoologica 5: 245; Ashlock 1972, Proc.  
 Calif. Acad. Sci., ser. 4, 39: 101, fig. 5. Floreana, San Salvador,  
 Santa Cruz

## Family REDUVIIDAE

(Ref.: Villiers 1970)

Genus **Ploiaria**

- macrophthalma** Dohrn, 1860, Linn. Entomol. 14: 244, figs. 23-24  
 (*Luteva*); Villiers 1970, Mission zool. belge Galapagos Ecuador  
 2: 229. Tropicopolitan;  
 Galápagos: Santa Cruz

Genus **Ghinallelia**

- galapagensis** Heidemann, 1901, Proc. Wash. Acad. Sci. 3: 367  
 (*Ghilianella*); Wygodzinsky 1966, Bull. Am. Mus. Nat. Hist. 133:  
 487. Española
- leleuporum** Villiers, 1970, Mission zool. belge Galapagos Ecuador  
 2: 231, figs. 2-4. Santa Fé
- species A, Villiers, 1970, Mission zool. belge Galapagos Ecuador 2:  
 231. Isabela
- species B, Villiers, 1970, Mission zool. belge Galapagos Ecuador 2:  
 235. Pinzón
- usingeri** Villiers, 1970, Mission zool. belge Galapagos Ecuador 2:  
 235, figs. 10-16. Floreana
- wygodzinskyi** Villiers, 1970, Mission zool. belge Galapagos Ecuador  
 2: 233, figs. 5-9. Pinta

## Family TINGIDAE

(Ref.: Drake and Froeschner 1967)

Genus **Phatnoma**

- eremaea** Drake and Froeschner, 1967, Proc. Entomol. Soc. Wash. 69: 83, fig. 1. Santa Cruz

Genus **Corythaica**

- cytharina** Butler, 1877, Proc. Entomol. Soc. Lond. 1877: 9 (*Monanthia*); Drake and Froeschner 1967, Proc. Entomol. Soc. Wash. 69: 84, fig. 2. Daphne Major, Fernandina, Floreana, Isabela, Pinzón, San Salvador, Santa Cruz
- renormata** Barber, 1925, Zoologica 5: 286. Darwin
- darwiniana** Drake and Froeschner, 1967, Proc. Entomol. Soc. Wash. 69: 89, fig. 4.
- wolfiana** Drake and Froeschner, 1967, Proc. Entomol. Soc. Wash. 69: 87, fig. 3. Wolf

## Family NABIDAE

(Ref.: Kerzhner 1968)

Genus **Nabis**

- consimilis** Reuter, 1912, Öfvers. Fin. Vetensk.-Soc. Förh. 54 (Afd. A) (7): 23-25, fig. (*Reduviolus*). Floreana, Isabela, San Salvador, Santa Cruz
- punctipennis** auct. (not Blanchard) *fide* Kerzhner 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 85.
- galapagoensis** Kerzhner, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 86, figs. 1, 3, 4, 6. Floreana, Santa Cruz
- reductus** Kerzhner, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 90, figs. 2, 5, 7. San Cristóbal

## Family ANTHOCORIDAE

(Ref.: Herring 1966)

Genus **Amphiareus**

- constrictus** Stål, 1860, K. Sven. Vetenskapsakad. Handl. 2: 44 ( *Poronotus* ). Santa Cruz

Genus **Buchananiella**

- sodalis** White, 1878, Ann. Mag. Nat. Hist., ser. 5, 1: 372 (*Cardiastethys*). Santa Cruz

Genus **Cardiastethus**

- limbatellus** Stål, 1860, K. Sven. Vetenskapsakad. Handl. 2: 44 (*Xylocoris*). Santa Cruz

Genus **Nidicola**

- mazda** Herring, 1966, Proc. Entomol. Soc. Wash. 68: 129, fig. 2. Santa Cruz

Genus **Orius**

- tricolor** White, 1879, Entomol. Mon. Mag. 16: 145 (*Triphleps*). Santa Cruz

Genus **Xylocoris**

- sordidus** Reuter, 1871, Öfvers. K. Vetenskapsakad. Förh. 28: 560 (*Piezostethus*). Baltra, Santa Cruz

## Family MIRIDAE

(Ref.: Carvalho and Gagné 1968)

Genus *Fulvius*

- brevicornis** Reuter, 1895, Rev. Entomol. 14: 138. Santa Cruz  
*anthocoroides* Reuter (not Stål), 1875, K. Sven. Vetenskapsakad.  
 Handl. 3: 8 (*Teratodella*); Carvalho and Gagné 1968, Proc.  
 Calif. Acad. Sci., ser. 4, 36: 153, fig. 5.  
*samoanus* Knight, 1935, Insects of Samoa 2: 203.
- geniculatus** Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, 21: 29; Fernandina, Rábida, San  
 Carvalho and Gagné 1968, Proc. Calif. Acad. Sci., ser. 4, 36: Cristóbal, San Salvador,  
 152, fig. 3. Santa Cruz

Genus *Campylomma*

- citrina** Carvalho, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 156, fig. 7. Floreana, Santa Cruz

Genus *Psallus*

- insularis** Barber, 1925, Zoologica 5: 250; Carvalho and Gagné 1968, Darwin, Fernandina,  
 Proc. Calif. Acad. Sci., ser. 4, 36: 163, figs. 9a, 14. Floreana, Isabela, Pinta,  
 Santa Cruz
- longirostris** Carvalho, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 158, Floreana, Isabela, Pinzón,  
 figs. 9b, 11. San Cristóbal, Santa Cruz
- mella** Van Duzee, 1937, Proc. Calif. Acad. Sci., ser. 4, 22: 117 Fernandina, Santa Cruz  
 (*Europiella*); Carvalho and Gagné 1968, Proc. Calif. Acad. Sci.,  
 ser. 4, 36: 159, figs. 10, 11.
- usingeri** Carvalho, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 162, fig. Floreana, Santa Cruz  
 13.

Genus *Rhinacloa*

- rubescens** Carvalho, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 164, Floreana  
 figs. 15, 16.

Genus *Macrolophus*

- innotatus** Carvalho, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 167, San Cristóbal, Santa Cruz  
 figs. 18, 19.
- punctatus** Carvalho, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 168, Santa Cruz  
 fig. 20.

Genus *Cyrtopeltis*

- affinis** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 175, fig. 24 Santa Cruz  
 (subgenus *Engytatus*).
- arida** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 176, fig. 25 Santa Cruz  
 (subgenus *Engytatus*).
- floreanae** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 176, fig. Floreana  
 26 (subgenus *Engytatus*).
- gummiferae** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 172, Isabela  
 fig. 22 (subgenus *Engytatus*).
- helleri** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 174, fig. 23 Santa Fé  
 (subgenus *Engytatus*).

- modesta** Distant, 1893, *Biologia Centrali-Americana*, Rhynchota 1: 447 (*Neosilia*); Carvalho and Gagné 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 177, figs. 21, 27 (subgenus *Engytatus*).  
*geniculatus* Reuter, 1876, *Öfvers. K. Sven. Vetenskapsakad. Förh.* Floreana  
 36: 83 (*Engytatus*).

#### Genus **Galapagocoris**

- crockeri** Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, ser. 4, 21: 29 (*Diaphnidia*); Carvalho and Gagné 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 180, figs. 28, 29. Fernandina, Floreana, San Cristóbal, San Salvador, Santa Cruz

#### Genus **Dolichomiris**

- linearis** Reuter, 1882, *Öfvers. K. Sven. Vetenskapsakad. Förh.* 25: 29; Carvalho and Gagné 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 183, figs. 31, 32. Fernandina, Santa Cruz  
*tibialis* Reuter, 1892, *Ann. Entomol. Soc. Fr.* 61: 392. San Salvador  
*longula* Noualhier, 1893, *Ann. Entomol. Soc. Fr.* 62: 15 (*No-stostira*). Isabela  
*bilineatus* Distant, 1893, *Biologia Centrali-Americana*, Rhynchota 1: 416 (*Eioneus*).  
*graminea* Distant, 1904, *Fauna British India*, Rhynchota 2: 424 (*Megaloceraea*).  
*gutticornis* Blatchley, 1926, *Heteroptera of eastern North America*, p. 674 (*Eioneus*).

#### Genus **Trigonotylus**

- lineatus** Butler, 1873, *Proc. Zool. Soc. Lond.* 1873: 89 (*Miris*); Carvalho and Gagné 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 185, figs. 33, 34. Floreana, Isabela, San Cristóbal

#### Genus **Galapagoniris**

- longirostris** Carvalho, 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 188, figs. 35, 36. Santa Cruz

#### Genus **Creontiades**

- castaneum** Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, ser. 4, 21: 27. Floreana, San Cristóbal, Santa Cruz  
**citrinus** Carvalho, 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 192. Santa Cruz  
**fernandinus** Carvalho, 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 192, fig. 38. Fernandina  
**fuscus** Barber, 1925, *Zoologica* 5: 248; Carvalho and Gagné 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 194, figs. 37, 39. Fernandina, Isabela, Pinzón, Rábida, Santa Cruz  
**punctatus** Carvalho, 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 196. Fernandina, Santa Cruz  
**vittatus** Carvalho, 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 196. Fernandina, Santa Cruz  
**willowsi** Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, ser. 4, 21: 28; Carvalho and Gagné 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 197, fig. 40. Rábida, San Salvador, Santa Cruz

#### Genus **Horcias**

- chiriquinus** Distant, 1884, *Biologia Centrali-Americana*, Rhynchota 1: 278; Carvalho and Gagné 1968, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 198, figs. 41, 42. Santa Cruz



Genus **Polymerus**

- nigritulus** Walker, 1873, Cat. Hem. Heter. Br. Mus. 6: 112 (*Capsus*); Carvalho and Gagné 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 200, figs. 43, 44. Floreana, Isabela, Santa Cruz
- vegatus** Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, 21: 28 (*Poeciloscytus*).

Genus **Taylorilygus**

- pallidulus** Blanchard, 1852, in Gay, Hist. Fis. Polit. Chile 7: 183 (*Phytocoris*); Carvalho and Gagné 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 203, figs. 45, 46. San Cristóbal, Santa Cruz
- apicalis** Fieber, 1861, Die Europäischen Hemiptera, p. 275 (*Lygus*).
- putoni** Meyer, 1870, Mitt. Entomol. Ges. 1870: 207 (*Lygus*).
- prasinus** Reuter, 1876, Öfvers. K. Sven. Vetenskapsakad. Förh. 32: 72 (*Lygus*).
- carolinae** Reuter, 1876, Öfvers. K. Sven. Vetenskapsakad. Förh. 32: 72 (*Lygus*).
- uruguayensis** Berg, 1879, An. Soc. Cient. Argent. 16: 16 (*Lygus*).
- godmani** Distant, 1893, Biologia Centrali-Americana, Rhynchota 1: 433 (*Lygus*).
- osiris** Kirkaldy, 1902, Trans. Entomol. Soc. Lond. 1902: 262 (*Lygus*).
- immitis** Distant, 1904, Fauna British India, Rhynchota 2: 456 (*Lygus*).
- pubens** Distant, 1904, Fauna British India, Rhynchota 2: 456 (*Lygus*).

Genus **Dagbertus**

- darwini** Butler, 1877, Proc. Zool. Soc. Lond. 1877: 89 (*Capsus*); Carvalho and Gagné 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 206, fig. 48. Floreana, Pinzón, Santa Cruz
- figuratus** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 217, fig. 56. Santa Cruz
- formosus** Carvalho, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 207, fig. 49. Santa Cruz
- lineatus** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 216, fig. 55. Floreana
- marmoratus** Carvalho, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 209, fig. 50. Floreana
- nigrifrons** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 214, fig. 54. Floreana
- pallidus** Gagné, 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 212, fig. 53. Santa Cruz
- quadrinotatus** Walker, 1873, Cat. Hem. Heter. Br. Mus. 6: 113 (*Capsus*); Carvalho and Gagné 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 210, figs. 47, 51. San Cristóbal, San Salvador, Santa Cruz
- spoliatus** Walker, 1873, Cat. Hem. Heter. Br. Mus. 6: 112 (*Capsus*); Carvalho and Gagné 1968, Proc. Calif. Acad. Sci., ser. 4, 36: 212, fig. 52. Floreana

## Family SALDIDAE

(Ref.: Polhemus 1968a)

Genus **Pentacora**

- sphacelata** Uhler, 1877, Bull. U.S. Geol. Geogr. Surv. 3: 434 Baltra, Isabela, Santa Cruz  
(*Salda*).  
*rubromaculata* Heidemann, 1901, Proc. Wash. Acad. Sci. 3: 368  
(*Salda*).

Genus **Saldula**

- galapagosana** Polhemus, 1968, Proc. Entomol. Soc. Wash. 70: 22, San Salvador, Santa Cruz  
figs. 1a-f.

## Family VELIIDAE

(Ref.: Polhemus 1968b)

Genus **Microvelia**

- ashlocki** Polhemus, 1968, Proc. Entomol. Soc. Wash. 70: 129, figs. Darwin, Santa Cruz  
1, 2.

## Order HOMOPTERA

## Family CIXIIDAE

(Ref.: Fennah 1967)

Genus **Nymphocixia**

- vanduzeei galapagensis** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, Fernandina, Isabela,  
35: 58, figs. 1(A, F, I, J). Santa Cruz  
*unipunctata* auct. (not Van Duzee 1923).

Genus **Oliarus**

- agrippa** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 62, figs. Santa Cruz  
3(J-L).  
**alabandus** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 61, figs. San Cristóbal  
2(E, J-L), 3(G-I).  
**alastor** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 63, figs. Floreana  
3(D-F).  
**galapagensis** Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, 21: Isabela  
33; Fennah 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 58, figs.  
2(A-D, I), 3(A-C).  
**remansor** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 60, figs. Pinzón  
2(F-H), 3(M-O).

## Family ISSIDAE

(Ref.: Fennah 1967)

Genus **Philatis**

- athamas** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 92, figs. Darwin  
23(A-G).  
**atrx** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 93, figs. Santa Cruz  
24(A-G).  
**auson** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 100, figs. Pinzón  
30(A-I).  
**breviceps** Van Duzee, 1933, Proc. Calif. Acad. Sci., ser. 4, 21: 35; Floreana  
Fennah 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 82.

- cinerea** Osborn, 1924, *Zoologica* 5: 78; Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 83, figs. 14(A-G). Genovesa
- crockeri** Van Duzee, 1937, *Proc. Calif. Acad. Sci.*, ser. 4, 22: 119 (Euthiscia); Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 85, figs. 19(A-E). Santa Cruz
- daunus** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 98, figs. 29(A-F). San Salvador
- delia** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 90, figs. 22(A-G). Santa Cruz
- deucalion** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 87, figs. 21(A-G). Santa Cruz
- latobius** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 94, figs. 25(A-E). Wolf
- lento** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 86, figs. 20(A-G). Floreana
- lycambes** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 95, figs. 26(A-E), 30H. Pinzón
- major** Osborn, 1924, *Zoologica* 5: 79; Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 82, figs. 13(A-H). Santa Cruz
- monaeses** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 34, 96, figs. 27(A-E). San Cristóbal
- opheltes** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 97, figs. 28(A-G). Seymour
- productus* Van Duzee (not Stål), 1933, *Proc. Calif. Acad. Sci.*, ser. 4, 21: 34 (pars.).
- productus** Stål, 1859, *Freg. Eugenie Resa, Zool.* 1, *Insecta*: 278 (*Mycterodus*); Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 81, figs. 12(A-G). Galápagos
- rostrifer** Butler, 1877, *Proc. Zool. Soc. Lond.* 1877: 90 (*Issus*); Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 85, figs. 18(A-E). Floreana
- servus** Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, ser. 4, 21: 34 (*Philates*); Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 85, figs. 17(A-E). Isabela
- varia** Walker, 1851, *List homopterous insects British Museum* 2: 372 (*Issus*); Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 84, figs. 15(A-E). San Salvador
- vicinus** Van Duzee, 1933, *Proc. Calif. Acad. Sci.*, ser. 4, 21: 34 (*Philates*); Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 84, figs. 16(A-E). Rábida

## Family DELPHACIDAE

(Ref.: Fennah 1967)

Genus *Caenodelphax*

- teapae** Fowler, 1905, *Biologia Centrali-Americana, Hemiptera-Homoptera* 1: 135 (*Liburnia*); Fennah 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 77. Santa Cruz

Genus *Nesosydne*

- alcmæon** Fennah, 1967, *Proc. Calif. Acad. Sci.*, ser. 4, 35: 69, figs. 7(A-G). Santa Cruz

- augur** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 72, figs. 8(A-E). Fernandina
- brimo** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 65, figs. 4(A-J). Santa Cruz
- iphis** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 68, figs. 6(A-F). San Salvador
- olipor** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 73, figs. 9(A-H). Santa Cruz
- seneca** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 74, figs. 10(A-H). Fernandina
- simulans** Walker, 1851, List homopterous insects British Museum 2: 355 (*Delphax*); Fennah 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 67, figs. 5(A-E). Floreana

#### Genus **Peregrinus**

- maidis** Ashmead, 1890, Psyche 5: 323 (*Delphax*). Santa Cruz

#### Genus **Pissonotus**

- substituus** Walker, 1851, List homopterous insects British Museum 2: 354 (*Delphax*); Fennah 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 77. Floreana, Santa Cruz
- vicaria* Walker, 1851, List homopterous insects British Museum 2: 355 (*Delphax*).

#### Genus **Sogatella**

- kolophon** Kirkaldy, 1907, Entomol. Bull. Hawaii. Sugar Plant. Assoc. 3: 157 (*Delphax*); Fennah 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 76. San Cristóbal, Santa Cruz

#### Genus **Syndelphax**

- dissipatus** Muir, 1926, Entomol. Bull. Hawaii. Sugar Plant. Assoc. 18: 33 (*Delphacodes*); Fennah 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 76. Santa Cruz

#### Family TROPIDUCHIDAE

(Ref.: Fennah 1967)

#### Genus **Colgorma**

- menalcas** Fennah, 1967, Proc. Calif. Acad. Sci., ser. 4, 35: 79, figs. 11(A-G). Floreana

#### Family CICADELLIDAE

#### Genus **Austroagallia**

- arrhenonigra** Viraktamath, 1972, Occas. Pap. Calif. Acad. Sci. 101: 2, figs. 1-7. Santa Cruz
- mera** Van Duzee, 1937, Proc. Calif. Acad. Sci., ser. 4, 22: 123 (*Agallia*); Linsley and Usinger 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 138 (*Agalliopsis*). Santa Cruz

## Order NEUROPTERA

## Family MYRMELEONTIDAE

(Ref.: Stange 1969)

Genus **Myrmeleon**

- perpilosus** Banks, 1924, Zoologica 5: 177; Stange 1969, Acta Zool. Lilloana 25: 196, figs. 9-14. Pinzón, Santa Cruz, Santa Fé, Wolf

Genus **Brachynemurus**

- darwinii** Stange, 1969, Acta Zool. Lilloana 25: 190, figs. 1-8, 15; Parkin et al. 1972, Pan-Pac. Entomol. 48: 103. Española, Floreana, Isabela, Pinta, Pinzón, San Salvador, Santa Cruz, Santa Fé

Genus **Dimares**

- formosus** Banks, 1908, Proc. Entomol. Soc. Wash. 9: 31. Not from Galápagos

## Family CHRYSOPIDAE

Genus **Chrysopa**

- nigripilosa** Banks, 1924, Zoologica 5: 177; Parkin et al. 1972, Pan-Pac. Entomol. 48: 102. Baltra, San Salvador, Santa Cruz  
species, Parkin et al. 1972, Pan-Pac. Entomol. 48: 102. Floreana, San Salvador, Santa Cruz

## Order COLEOPTERA

## Family CICINDELIDAE

Genus **Cicindela**

- galapagoensis** Horn, 1915, Genera Insectorum, fasc. 82: 402. Galápagos  
**galapagoensis discolorata** Mandl, 1967, Entomol. Arb. Mus. G. Genovesa  
Frey Tutzing bei Muench. 18: 385.  
**galapagoensis galapagoensis** Horn, 1915, Genera Insectorum, fasc. 82: 402. Isabela

## Family CARABIDAE

Genus **Castrida**

(Ref.: Basilewsky 1968)

- galapageium** Hope, 1838, Trans. Entomol. Soc. Lond. 2: 130 (*Calosoma*). San Salvador  
**granatensis** Géhin, 1885, Cat. Synonymique Syst. Coleopteres Carabides, p. 59 (*Calosoma*); Basilewsky 1968, Mission Zool. Belge Galapagos Ecuador 1: 188-200, fig. 1. Galápagos: widespread  
**granatensis darwinia** Van Dyke, 1953, Occas. Pap. Calif. Acad. Sci. 22: 10, pl. 1, figs. 3, 5 (*Calosoma*). Isabela  
**granatensis floreana** Basilewsky, 1968, Mission Zool. Belge Galapagos Ecuador 1: 190. Floreana  
**granatensis granatense** Géhin, 1885, Cat. Synonymique Syst. Coleopteres Carabides, p. 59 (*Calosoma*). Baltra, Darwin, Española, Floreana, Genovesa, Isabela, Pinta, Pinzón, San Cristóbal, San Salvador, Santa Cruz, Santa Fé  
**howardi** Linell, 1898, Proc. U.S. Natl. Mus. 21: 251 (*Calosoma*).



*galapageium* Roeschke (not Hope), 1900, Entomol. Nachr. 26: 59 (*Calosoma*).

**leleuporum** Basilewsky, 1968, Mission Zool. Belge Galapagos Ecuador 1: 200, figs. 2, 3. Santa Cruz

**linelli** Mutchler, 1925, Zoologica 5: 221 (*Calosoma*). San Cristóbal

*galapageium* Linell (not Hope), 1898, Proc. U.S. Natl. Mus. 21: 250 (*Calosoma*).

#### Genus *Mystroceridius*

**basilewskyi** Reichart, 1970, Mission Zool. Belge Galapagos Ecuador 2: 166, figs. 1-4. Santa Cruz

#### Genus *Selenophorus*

**galapagoensis** Waterhouse, 1845, Ann. Mag. Nat. Hist., new ser., 16: 22; Parkin et al. 1972, Pan-Pac. Entomol. 48: 105. Española, Floreana, Gardner, Pinta, San Cristóbal

#### Family PSELAPHIDAE

#### Genus *Bythinoplectus*

**peregrinus** Schuster and Grigarick, 1966, Proc. Biol. Soc. Wash. 79: 53, figs. 1-5. Santa Cruz

#### Family TENEBRIONIDAE

(Ref.: Kaszab 1970)

#### Genus *Stomion*

**galapagoense** Waterhouse, 1845, Ann. Mag. Nat. Hist., new ser., 16: 29.

**galapagoense galapagoense** Waterhouse, 1845, Ann. Mag. Nat. Hist., new ser., 16: 29; Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 187. Española, Floreana, San Cristóbal

**galapagoense leleupi** Kaszab, 1970, Mission Zool. Belge Galapagos Ecuador 2: 187, fig. 1. Santa Cruz

#### Genus *Perepitragus*

**solieri** Casey, 1907, Proc. Wash. Acad. Sci., 9: 520; Freude 1967, Entomol. Arb. Mus. G. Frey Tutzing bei Muench. 18: 238; Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 189, fig. 2. Ecuador; Floreana, San Cristóbal, Santa Cruz

*fuscipes*, Van Dyke (not Latreille), 1953, Occas. Pap. Calif. Acad. Sci. 22: 82.

#### Genus *Ammophorus*

**cavernicola** Kaszab, 1970, Mission Zool. Belge Galapagos Ecuador 2: 192, fig. 3. Santa Cruz

**insularis** Boheman, 1858, Freg. Eugenies Resa, Zool. 1, Insecta: 89; Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 191. Isabela, San Cristóbal, Santa Cruz

#### Genus *Blapstinus*

**blairi** Van Dyke, 1953, Occas. Pap. Calif. Acad. Sci. 22: 103 (*Pedonoeces*); Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 194, fig. 5. Floreana

- pubescens** Waterhouse, 1845, Ann. Mag. Nat. Hist., new ser., 16: 36 (Pedonoeces); Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 194, pl. 4. Floreana, Isabela, San Cristóbal, Santa Cruz

Genus **Pedonoeces**

- baueri** Linell, 1898, Proc. U.S. Natl. Mus. 21: 265; Parkin et al. 1972, Pan-Pac. Entomol. 48: 106. Floreana, San Cristóbal
- culpepperi** Van Dyke, 1953, Occas. Pap. Calif. Acad. Sci. 22: 102. Darwin
- lugubris** Boheman, 1858, Freg. Eugenies Resa, Zool. 1, Insecta: 91, fig. 5. (*Tessaroma*); Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 196, fig. 6. Eden, Española, Isabela, Pinta, Santa Cruz
- opacus** Van Dyke, 1953, Occas. Pap. Calif. Acad. Sci. 22: 114; Parkin et al. 1972, Pan-Pac. Entomol. 48: 106. Rábida, Santa Cruz

Genus **Phaleria**

- manicata** Boheman, 1858, Freg. Eugenies Resa, Zool. 1, Insecta: 92; Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 198, fig. 7. Española, Floreana, Isabela, Santa Cruz

Genus **Caecomenimopsis**

- leleupi** Kaszab, 1970, Mission Zool. Belge Galapagos Ecuador 2: 199, fig. 8. Santa Cruz

Genus **Gnatocerus**

- maxillosus** Fabricius, 1801, Systema Eleutheratorum 1: 155 (*Trogosita*); Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 201. Cosmopolitan; Galápagos: Santa Cruz
- species, Kaszab, 1970, Mission Zool. Belge Galapagos Ecuador 2: 202. Santa Cruz

Genus **Tribolium**

- castaneum** Herbst, 1797, Natursystem . . . Käfer 7: 282, pl. 112, fig. 3 (*Colydium*); Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 202. Cosmopolitan; Galápagos: Santa Cruz

Genus **Alphitobius**

- laevigatus** Fabricius, 1781, Species Insectorum 1: 304 (*Opatrum*); Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 202. Cosmopolitan; Galápagos: Floreana, Santa Cruz

Genus **Zophobas**

- atratus** Fabricius, 1775, Systema Entomologiae, p. 256 (*Tenebrio*); Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 202. Central and South America; Galápagos: Isabela

Genus **Adelonia**

- costipennis** Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 480 (*Rhacius*); Kaszab 1970, Mission Zool. Belge Galapagos Ecuador 2: 203, fig. 9. San Salvador, Santa Cruz

Family **BOSTRICHIDAE**

(Ref.: Reichart 1970)

Genus **Amphicerus**

- galapaganus** Lesne, 1910, Bull. Mus. Natl. Hist. Nat. 16: 184 (Schistocercus cornutus subsp.); Reichart 1970, Mission Zool. Belge Galapagos Ecuador 2: 213 (as species).  
species, Waterhouse, 1845, Ann. Mag. Nat. Hist., new ser., 16: 36 (Apate).  
*uncinatus* Waterhouse (not Germar), 1877, Proc. Zool. Soc. Lond. 1877: 82 (Bostrichus).  
*punctipennis* Linell (not Le Conte), 1898, Proc. U.S. Natl. Mus. 21: 256.

Genus **Tetrapriocera**

- longicornis** Olivier, 1795, Entomologie 4(77): 15, pl. 3, fig. 18 (Bostrichus).  
*tridens* Lesne (not Fabricius), 1901, Ann. Soc. Entomol. Fr. 49: 483.

Genus **Micrapate**

- scabrata** Erichson, 1847, Arch. Naturgesch. 13(1): 87 (Bostrichus).  
San Cristóbal

Genus **Lycтус**

- brunneus** Stephens, 1830, Illus. Br. Entomol. 3: 116; Reichart 1970, Mission Zool. Belge Galapagos Ecuador 2: 216.  
Cosmopolitan: Galápagos: Santa Cruz

Genus **Lichenophanes**

- rutilans** Reichart, 1970, Mission Zool. Belge Galapagos Ecuador 2: 216, figs. 1-2.  
Santa Cruz

Family **SCARABAEIDAE**Genus **Diastichus**

- darwini** Cartwright, 1970, Proc. Biol. Soc. Wash. 83: 53.  
Darwin, Wolf

Genus **Ataenius**

(Ref.: Cartwright 1970)

- aequatorialis** Petrovitz, 1961, Entomol. Arb. Mus. G. Frey Tutzing bei Muench. 12: 355.  
*aequinoctialis* Petrovitz, 1961 (loc. cit.) (*lapsus calami*).  
**arrowi** Hinton, 1936, Ann. Mag. Nat. Hist., ser. 10, 17: 414; Cartwright 1970, Proc. Biol. Soc. Wash. 83: 53, 55, fig. 1.  
*cribrithorax* Blair (not Bates), 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 476.  
**atramentarius** Erichson, 1847, Arch. Naturgesch. 13: 110 (*Euparia*).  
*scutellaris* Van Dyke (not Harold), 1953, Occas. Pap. Calif. Acad. Sci. 22: 123.  
*dampieri* Petrovitz, 1961, Entomol. Arb. Mus. G. Frey Tutzing bei Muench. 12: 356.  
**cavagnaroi** Cartwright, 1970, Proc. Biol. Soc. Wash. 83: 55, fig. 2.  
Fernandina

## Family CERAMBYCIDAE

(Ref.: Linsley and Chemsak 1966a)

Genus **Parandra**

- galapagoensis** Van Dyke, 1953, Occas. Pap. Calif. Acad. Sci. 20: 127; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 203, fig. 9. Isabela, San Salvador, Santa Cruz

Genus **Stenodontes**

- molarius** Bates, 1879, Biologia Centrali-Americana 5: 9 (*Mallodon*). Mexico; Central America; South America; Galápagos
- molarius galapagoensis** Mutchler, 1938, Am. Mus. Novit. 981: 11, fig. 6; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 204, figs. 3-8. Santa Cruz
- molarius glabratus** Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 206. San Cristóbal
- molarius vandykei** Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 206. Isabela
- molarius** subsp. indet., Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 208. Pinzón, Floreana, San Salvador

Genus **Strongylaspis**

- kraepelini** Lameere, 1903, Mem. Soc. Entomol. Belg. 11: 28. Ecuador; Galápagos
- kraepelini parvula** Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 209, figs. 10, 12. Santa Cruz
- kraepelini** subsp. indet., Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 209. San Salvador

Genus **Nesoeme**

- kuscheli** Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 211, fig. 11. Santa Cruz

Genus **Achryson**

- galapagoense** Linell, 1898, Proc. U.S. Natl. Mus. 21: 259. Western South America; Galápagos
- galapagoense darwini** Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 213, figs. 15, 16. Santa Cruz
- galapagoense flavescens** Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 213. Floreana
- galapagoense galapagoense** Linell, 1898, Proc. U.S. Natl. Mus. 21: 259. San Cristóbal
- galapagoense** subsp. indet., Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 209. Baltra

Genus **Eburia**

- amabilis** Boheman, 1859, Freg. Eugenies Resa, Zool. 1, Insecta: 150; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 233 (Galápagos occurrence questionable). Galápagos (?)

- lanigera** Linell, 1898, Proc. U.S. Natl. Mus. 21: 259; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 215, figs. 1, 17, 18. Fernandina, Floreana, Gardner, Genovesa, Isabela, Pinta, Pinzón, Rábida, San Cristóbal, San Salvador, Santa Cruz, Sante Fé
- pilosa** Erichson, 1833, Nova Acta Leopold. Acad. Nat. Cur. 16: 267, pl. 39, fig. 6 (*Stenocorus*); Gilmour 1966, Mitt. Zool. Mus. Berl. 42: 164, pl. 1, figs. 1-4. Peru; Bolivia; Galápagos: Isabela, San Cristóbal, San Salvador
- bauri** Linell, 1898, Proc. U.S. Natl. Mus. 21: 260.
- proletaria**, Blair (not Erichson), 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 481; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 219, figs. 13-14.

Genus **Heterachthes**

- apicalis** Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 481 (*Compsa*); Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 219, figs. 13-14 (*Compsa*); Martins 1965, Pap. Avulsos Dep. Zool. São Paulo 17: 99 (*Neocompsa*); Martins 1970, Arq. Zool. (São Paulo) 16: 122 (syn.). Aruba; Colombia; Galápagos: San Salvador, Santa Cruz
- arubae** Gilmour, 1968, Stud. Fauna Curaçao Other Caribb. Isl. 25: 146, pl. 13, fig. 4.

Genus **Desmiphora**

- maculosa** Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 220, figs. 2, 27; Breuning 1974, Stud. Entomol. 17: 145. Fernandina, San Salvador, Santa Cruz
- hirticollis**, Blair (not Olivier), 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 482.

Genus **Estoloides**

- galapagoensis** Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 482 (*Estola*); Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 221, figs. 22, 24. Isabela, San Salvador, Santa Cruz, Santa Fé

Genus **Estola**

- insularis** Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 483; Breuning 1974, Stud. Entomol., new ser., 17: 109. Galápagos
- insularis cribrata** Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 483; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci. ser. 4, 33: 228; Breuning 1974, Stud. Entomol., new ser., 17: 109. Isabela
- insularis duncani** Van Dyke, 1953, Occas. Pap. Calif. Acad. Sci. 22: 135; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 228; Breuning 1974, Stud. Entomol., new ser., 17: 109. Pinzón
- insularis insularis** Blair, 1933, Ann. Mag. Nat. Hist., ser. 10, 11: 483; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 226, fig. 28. Santa Cruz
- insularis subnigrescens** Breuning, 1974, Stud. Entomol., new ser., 17: 109. Floreana
- insularis nigrescens** Linsley and Chemsak, 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 229.



*insularis* subsp. indet., Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 229. Fernandina, Santa Fé

#### Genus *Acanthoderes*

- galapagoensis* Linell, 1898, Proc. U.S. Natl. Mus. 21: 261. Galápagos  
*galapagoensis galapagoensis* Linell, 1898, Proc. U.S. Natl. Mus. San Cristóbal  
 21: 261; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci.,  
 ser. 4, 33: 224.  
*galapagoensis vonhageni* Mutchler, 1938, Am. Mus. Novit. 981: Santa Cruz  
 14; Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4,  
 33: 225, figs. 21, 23.  
*galapagoensis williamsi* Linsley and Chemsak, 1966, Proc. Calif. San Salvador  
 Acad. Sci., ser. 4, 33: 225.  
*galapagoensis* subsp. indet., Linsley and Chemsak, 1966, Proc. Isabela  
 Calif. Acad. Sci., ser. 4, 33: 226.

#### Genus *Nesozineus*

- galapagoensis* Van Dyke, 1953, Occas. Pap. Calif. Acad. Sci. 22: Galápagos  
 136 (*Leptostylus*).  
*galapagoensis galapagoensis* Van Dyke, 1953, Occas. Pap. Calif. Isabela  
 Acad. Sci. 22: 135, pl. 7, fig. 1; Linsley and Chemsak 1966,  
 Proc. Calif. Acad. Sci., ser. 4, 33: 231.  
*galapagoensis variabilis* Linsley and Chemsak, 1966, Proc. Calif. Santa Cruz  
 Acad. Sci., ser. 4, 33: 231, fig. 25.  
*galapagoensis* subsp. indet., Linsley and Chemsak, 1966, Proc. Fernandina, Rábida,  
 Calif. Acad. Sci., ser. 4, 33: 232. San Cristóbal

#### Genus *Taeniotes*

- hayi* Mutchler, 1938, Am. Mus. Novit. 981: 13 (*Monochamus*); Cocos Is.; Galápagos:  
 Linsley and Chemsak 1966, Proc. Calif. Acad. Sci., ser. 4, 33: Santa Cruz(?)  
 233 (Galápagos occurrence questionable); Linsley and Chemsak  
 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 240, fig. 6 (Cocos Is.).  
*cocoensis* Mutchler, 1938, Am. Mus. Novit. 981: 13.

#### Family CURCULIONIDAE

##### Genus *Pantomorus*

- galapagoensis* Linell, 1898, Proc. U.S. Natl. Mus. 21: 268; Parkin Floreana, San Cristóbal  
 et al. 1972, Pan-Pac. Entomol. 48: 106.

#### Family PLATYPODIDAE

(Ref.: Schedl 1974)

##### Genus *Platypus*

- linearis* Stephens, 1832, Illustrations of British Entomology, Man- Tropical and subtropical  
 dibulata, 5: 419; Schedl 1974, Stud. Neotrop. Fauna 9: 50, 52. Africa and New World;  
 Galápagos: Santa Cruz  
*santacruzensis* Mutchler, 1925, Zoologica 5: 232, fig. 24; Schedl Isabela, Santa Cruz  
 1974, Stud. Neotrop. Fauna 9: 50, 52.

## Family SCOLYTIDAE

(Ref.: Schedl 1974)

Genus **Pagiocerus**

- frontalis** Fabricius, 1801, *Systema Eleutheratorum*, 2: 389 (*Bostriachus*); Schedl 1974, *Stud. Neotrop. Fauna* 9: 48, 50. Mexico to Brazil; Galápagos: Santa Cruz

Genus **Pycnarthrum**

- insulare** Blair, 1935, *Ann. Mag. Nat. Hist.*, ser. 10, 11: 478; Schedl 1974, *Stud. Neotrop. Fauna* 9: 48, 50. Genovesa, Isabela, Española, Santa Cruz

Genus **Hypothenemus**

- eruditus** Westwood, 1833, *Trans. Entomol. Soc. Lond.* 1: 34; Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 51. Pan-tropical; Galápagos: Floreana

Genus **Stephanoderes**

- birmanus** Eichhoff, 1878, *Ratio Tomycinorum*, p. 468 (*Triarmoceerus*); Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 51. Indo-Malayan Region; Pacific Islands; Galápagos: Floreana
- bituberculatus** Eggers, 1940, *Arb. Morph. Tax. Entomol. Berl.-Dahlem* 7: 126; Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 51. Guadaloupe; Galápagos: Santa Cruz
- obscurus** Fabricius, 1801, *Systema Eleutheratorum*, 2: 395 (*Hylesinus*); Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 51. Santa Cruz

Genus **Xyloborus**

- artespinosus** Schedl, 1935, *Arch. Inst. Biol. Veg.* 2: 93; Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 51. Costa Rica; Galápagos: Santa Cruz
- affinis** Eichhoff, 1867, *Berl. Entomol. Z.* 11: 401; Schedl 1971, *Steenstrupia* 1: 149 (as *X. mascarensis*); Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 52. Pan-tropical; Galápagos: Floreana, Santa Cruz
- ferrugineus** Fabricius, 1801, *Systema Eleutheratorum* 2: 388 (*Bostriachus*); Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 52. Pan-tropical; Galápagos: Santa Cruz
- gracilis** Eichhoff, 1868, *Berl. Entomol. Z.* 12: 145; Schedl 1971, *Steenstrupia* 1: 149; Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 51. Brazil; Argentina; Galápagos: Floreana
- torquatus** Eichhoff, 1868, *Berl. Entomol. Z.* 12: 146; Schedl 1974, *Stud. Neotrop. Fauna* 9: 49, 52. Pan-tropical; Galápagos: Floreana

## Order LEPIDOPTERA

## Family DANAIDAE

Genus **Danaus**

- gillippus** Cramer, 1775, *Papillons Exotiques*, 1: 41, pl. 26, figs. c, d (*Papilio*); Parkin et al. 1972, *Pan-Pac. Entomol.* 48: 103. San Cristóbal

## Family EPIPLEMIDAE

Genus **Epiplema**

- becki** Hayes, 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 151, figs. 16, 17, 168-170. Fernandina, Isabela

Genus **Powondrella**

- cingillaria** Geyer, 1837 in Hübner, *Exotischer Schmetterlinge* 5: 14 (*Polygonia*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: i (Addendum, following p. 208). Galápagos

## Family GEOMETRIDAE

(Ref.: Rindge 1973)

## Subfamily STERRHINAE

Genus *Cyclophora*

- impudens** Warren, 1904, Novit. Zool. 11: 487 (*Perixera*); Linsley and Usinger 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 162 (*Cosymbia*); Herbulot 1970, Lambillionea 69: 18; 1971, Lambillionea 71: 11; Rindge 1973, Am. Mus. Novit. 2510: 9.
- Española, Floreana, Gardner, Genovesa, Isabela, Pinzón, San Cristóbal, San Salvador, Santa Cruz, Santa Fé

## Subfamily LARENTIINAE

Genus *Disclisioprocta*

- stellata** Guenée, 1857, Uranides et Phalenites, 2: 443 (*Scotosia*); Schaus 1923, Zoologica 5: 28 (*Eucosmia*); Linsley and Usinger 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 162 (*Camptogramma*); Herbulot 1970, Lambillionea 69: 18; 1971, Lambillionea 71: 11; Rindge 1973, Am. Mus. Novit. 2510: 13.
- Southern United States to southern South America; Antilles; Galápagos: Baltra, Española, Fernandina, Floreana, Genovesa, Isabela, Pinta, San Salvador, Santa Cruz, Santa Fé

Genus *Hydria*

- affirmata** Guenée, 1857, Uranides et Phalenites 2: 447 (*Scotosia*); Herbulot 1971, Lambillionea 71: 11; Rindge 1973, Am. Mus. Novit. 2510: 14.
- Brazil to Mexico; Galápagos: Isabela, Santa Cruz

Genus *Eupithecia*

- leleupi** Herbulot, 1970, Lambillionea 69: 19; Rindge 1973, Am. Mus. Novit. 2510: 15.
- perryvriesi** Herbulot, 1971, Lambillionea 71: 12; Rindge 1973, Am. Mus. Novit. 2510: 16.
- Pinta, Rábida, San Salvador, Santa Cruz  
Isabela, Pinta, San Salvador, Santa Cruz

Genus *Perizoma* (?)

- perryi** Rindge, 1973, Am. Mus. Novit. 2510: 20.
- Isabela

## Subfamily ENNOMINAE

Genus *Semiothisa*

- cruciata** Herbulot, 1970, Lambillionea, 69: 21.
- cruciata cruciata** Herbulot, 1970, Lambillionea 69: 21; Rindge 1973, Am. Mus. Novit. 2510: 24.
- cruciata isabelae** Rindge, 1973, Am. Mus. Novit. 2510: 24.
- cerussata** Herbulot, 1970, Lambillionea 69: 23; Rindge 1973, Am. Mus. Novit. 2510: 25.
- Galápagos  
Santa Cruz  
Isabela  
Santa Cruz

Genus *Thyrinteina*

- infans** Herbulot, 1970, Lambillionea 69: 24; 1971, Lambillionea 71: 14; Rindge 1973, Am. Mus. Novit. 2510: 26.
- umbrosa** Herbulot, 1971, Lambillionea 71: 14 (*infans* subsp.); Rindge 1973, Am. Mus. Novit. 2510: 27.
- Fernandina, Floreana, Isabela, San Salvador, Santa Cruz, Santa Fé  
Fernandina, Isabela, San Salvador, Santa Cruz

Genus **Sphacelodes**

- vulneraria** Hübner, 1823, Zuträge zur Sammlung exotischer Schmetterlinge, p. 23 (*Brotis*); Rindge 1973, Am. Mus. Novit. 2510: 29. Santa Cruz

Genus **Oxydia**

- lignata** Warren, 1905, Novit. Zool. 12: 362 (*Sericosema*); Linsley and Usinger 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 162 (*Sericosema*); Herbulot 1971, Lambillionia 71: 15; Rindge 1973, Am. Mus. Novit. 2510: 30. Fernandina, Isabela, San Cristóbal, San Salvador, Santa Cruz

## Family SPHINGIDAE

(Ref.: Hayes 1975)

Genus **Agrius**

- singulatus** Fabricius, 1775, Systema Entomologiae, p. 545 (*Sphinx*); Kernbach 1962, Opusc. Zool. (Muench.) 63: 1 (*Herse*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 152, fig. 1. Neotropical; Galápagos: Baltra, Floreana, Isabela, San Cristóbal, Santa Cruz, Wolf

Genus **Manduca**

- sexta leucoptera** Rothschild and Jordan, 1903, Novit. Zool. 9, Suppl.: 79 (*Protoparce leucoptera*); Kernbach 1962, Opusc. Zool. (Muench.) 63: 2 (*Protoparce*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 152, fig. 2. Floreana, Isabela, San Cristóbal, Santa Cruz
- rustica calapagensis** Holland, 1889, Proc. U.S. Natl. Mus. 12: 195 (*Protoparce calapagensis*); Rothschild and Jordan 1903, Novit. Zool. 9, Suppl.: 85 (*Protoparce*); Kernbach 1962, Opusc. Zool. (Muench.) 63: 4 (*Protoparce*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 154, frontispiece, fig. 3. Baltra, Española, Floreana, Genovesa, Isabela, San Cristóbal, Santa Cruz
- nigrita** Rothschild and Jordan, 1903, Novit. Zool. 9, Suppl.: 86 (*Protoparce rustica calapagensis* ab.).
- postscripta** Clark, 1926, Proc. N. Engl. Zool. Club 9: 70 (*Protoparce rustica* subsp.).

Genus **Erinnyis**

- alope dispersa** Kernbach, 1962, Opusc. Zool. (Muench.) 63: 9; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 154, fig. 5. Santa Cruz
- ello encantada** Kernbach, 1962, Opusc. Zool. (Muench.) 63: 10; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 155, figs. 13, 14. Floreana, Isabela, San Cristóbal, Santa Cruz
- obscura conformis** Rothschild and Jordan, 1903, Novit. Zool. 9, Suppl.: 369; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 155, fig. 12. Baltra, Floreana, Isabela, Pinzón, Santa Cruz

Genus **Enyo**

- lugubris delanoi** Kernbach, 1962, Opusc. Zool. (Muench.) 63: 11 (*Epistor*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 155, figs. 7, 8. Isabela, Santa Cruz

Genus **Pachygonia**

- drucei** Rothschild and Jordan, 1903, Novit. Zool. 9, Suppl.: 411; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 157. Central America; Ecuador; Galápagos (?)

Genus **Eumorpha**

- fasciata tupaci** Kernbach, 1962, Opusc. Zool. (Muench.) 63: 12 Santa Cruz  
(*Pholus*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 157,  
fig. 6.
- labruscae yupanquii** Kernbach, 1962, Opusc. Zool. (Muench.) 63: Floreana, Santa Cruz  
13 (*Pholus*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 157,  
fig. 4.

Genus **Xylophanes**

- norfolki** Kernbach, 1962, Opusc. Zool. (Muench.) 63: 14; Hayes Santa Cruz  
1975, Proc. Calif. Acad. Sci., ser. 4, 40: 158, fig. 11.
- tersa** Linnaeus, 1771, Mantissa Plantarum 2: 538 (*Sphinx*); Hayes San Cristóbal,  
1975, Proc. Calif. Acad. Sci., ser. 4, 40: 158, figs. 9, 10. San Salvador

Genus **Hyles**

- lineata florilega** Kernbach, 1962, Opusc. Zool. (Muench.) 63: 16 Baltra, Española,  
(*Celerio*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 158, Floreana, Isabela, San  
fig. 15. Cristóbal, Santa Cruz

## Family ARCTIIDAE

Genus **Utetheisa**

- devriesi** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 159, figs. Pinta  
24-26, 175, 176.
- galapagensis** Wallengren, 1860, Wien. Entomol. Monatschrift 4: Baltra, Fernandina,  
161 (*Euchelia*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: Floreana, Isabela, Pinta,  
161, figs. 22, 23. San Cristóbal, San  
Salvador, Santa Cruz
- ornatrix** Linnaeus, 1758, Systema Naturae, Ed. 10, 1: 511 (*Phalaena Noctua*); Parkin et al. 1972, Pan-Pac. Entomol. 48: 103; Baltra, Gardner nr.  
Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 159, figs. 18, 19. Española, Isabela, San  
Cristóbal, San Salvador,  
Santa Cruz
- perryi** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 161, figs. 20, Isabela, San Salvador,  
21, 171, 172. Santa Cruz

## Family NOCTUIDAE

(Refs.: Todd 1972, 1973; Hayes 1975)

## Subfamily NOCTUINAE

Genus **Agrotis**

- consternans** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 163, Isabela, Pinta, San  
figs. 27, 28, 173, 174. Cristóbal, San Salvador,  
Santa Cruz
- ipsilon** Hufnagel, 1776, Berl. Mag. 3: 416 (*Phalaena*); Parkin et al. Cosmopolitan; Galápagos:  
1972, Pan-Pac. Entomol. 48: 103; Hayes 1975, Proc. Calif. Acad. Isabela, San Cristóbal,  
Sci., ser. 4, 40: 163, figs. 31, 32. Santa Cruz
- subterranea williamsi** Schaus, 1923, Zoologica 5: 32 (*Euxoa williamsi*); Todd 1973, Proc. Entomol. Soc. Wash. 75: 34 (lectotype) Baltra, Fernandina,  
(*Euxoa williamsi*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, Isabela, Pinta, San  
40: 163, figs. 29, 30. Salvador, Santa Cruz
- annexa** (*Trietschke*) Richards, 1941, Allan Hancock Pac. Exped. 5: 235.

*galapagosensis* Köhler, 1961, An. Soc. Cient. Argent. 172: 71-72  
(*Scotia*).

#### Genus *Peridroma*

- saucia** Hübner, [1808], Sammlung europäischer Schmetterlinge 4: fig. 378 (*Noctua*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 165, fig. 40. Nearly cosmopolitan; Galápagos: Floreana
- margaritosa** Richards (not Haworth), 1941, Allan Hancock Pac. Exped. 5: 235 (misidentification).

#### Genus *Psaphara*

- conwayi** Richards, 1941, Allan Hancock Pac. Exped. 5: 235 (*Peridroma*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 165, figs. 37, 38. Floreana, Isabela, Pinta, Santa Cruz
- interclusa** Walker, 1857, Lepidopterous Insects Br. Mus. 11: 607; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 165, figs. 35, 36, 163. San Cristóbal

#### Genus *Aniela*

- infecta** Ochseneimer, 1816, Die Schmetterlinge von Europa 4: 67 (*Agrotis*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: i (Addendum following p. 208). Galápagos
- oceanica** Schaus, 1923, Zoologica 5: 32 (*Lycophotia*); Parkin et al. 1972, Pan-Pac. Entomol. 48: 103 (*Lycophotia*); Todd 1973, Proc. Entomol. Soc. Wash. 75: 35 (*Lycophotia*) (type); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 167, figs. 33, 34. Baltra, Isabela, Pinta, Pinzón, San Salvador, Santa Cruz

#### Subfamily HELIOTHINAE

##### Genus *Heliothis*

- cystiphora** Wallengren, 1860, Wien. Entomol. Monatsschr. 4: 172 (*Anthoecia*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 167, figs. 41, 42. Neotropical; Galápagos: Baltra, Española, Fernandina, Floreana, Gardner nr. Española, Genovesa, Isabela, San Cristóbal, San Salvador, Santa Cruz
- inflata** Wallengren, 1860, Wien. Entomol. Monatsschr. 4: 172 (*Anthoecia*).
- onca** Wallengren, 1860, Wein. Entomol. Monatsschr. 4: 172 (*Anthoecia*).
- virescens** Fabricius, 1781, Species Insectorum 2: 216 (*Noctua*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 168, fig. 39. Neotropical; Galápagos: Floreana, Genovesa, Isabela, Pinta, San Cristóbal, San Salvador, Santa Cruz

#### Subfamily HADENINAE

##### Genus *Mythimna*

- laticuscula** Herrich-Schäffer, 1868, Korresponden-Blatt Zoologische-Mineralogischen Ver. Regensburg 22: 148 (*Leucania*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 168. Neotropical; Galápagos: San Cristóbal
- solita** Walker, 1856, Lepidopterous Insects Br. Mus. 9: 99 (*Leucania*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 168, fig. 43. Neotropical; Galápagos: San Cristóbal, Santa Cruz



Genus **Pseudaletia**

- cooperi** Schaus, 1923, *Zoologica* 5: 33 (*Cirphis*); Franclemont 1951, *Proc. Entomol. Soc. Wash.* 53: 64; Todd 1973, *Proc. Entomol. Soc. Wash.* 75: 35 (*Cirphis*) (type); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 170, figs. 45-46.
- sequax** Franclemont, 1951, *Proc. Entomol. Soc. Wash.* 53: 70; Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 170, fig. 44.

Isabela, Pinta, San Cristóbal, San Salvador, Santa Cruz

Neotropical; Galápagos: Isabela, San Cristóbal, Santa Cruz

## Subfamily ACRONICTINAE

Genus **Magusa**

- erema** Hayes, 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 170, figs. 53, 54, 155.
- orbifera*, Schaus (not Walker), 1923, *Zoologica* 5: 24 (misidentification).

Isabela, Santa Cruz, Santa Fé

Genus **Trachea**

- cavagnaroi** Hayes, 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 171, figs. 49, 50, 156.

Santa Cruz

Genus **Cropia**

- infusa** Walker, [1858] 1857, *Lepidopterous Insects Br. Mus.* 13: 1116 (*Decelea*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 171, figs. 47, 48.

Neotropical; Galápagos: Española, Fernandina, Gardner nr. Española, Genovesa, Isabela, San Salvador, Santa Cruz

Genus **Callopietria**

- floridensis** Guenée, 1852 in Boisduval and Guenée, *Histoire Naturelle des Insectes, Lépidoptères* 6: 292 (*Eriopus*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 173, fig. 51.

Neotropical; Galápagos: Isabela, Pinta, San Cristóbal, Santa Cruz

Genus **Catabena**

- seorsa** Todd, 1972, *J. Wash. Acad. Sci.* 62: 38, figs. 3-6; Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 173, fig. 52.

Española, Floreana, Genovesa, Marchena, Isabela, Pinzón, San Cristóbal, Santa Cruz

Genus **Neogalea**

- esula longfieldae** Hayes, 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 173, figs. 55, 56.

Isabela

Genus **Spodoptera**

- dolichos** Fabricius, 1794, *Entomologia Systematica* 3(2): 95 (*Noc-tua*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 176, figs. 65, 66.

Neotropical; Galápagos: Floreana, Santa Cruz

- eridania** Stoll, 1781 in Cramer, *Uitlandsche Kapellen* 4: 133, pl. 358, figs. E, F (*Phalaena Noctua*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 174, figs. 57, 58. Neotropical; Galápagos: Isabela, San Cristóbal, Santa Cruz
- frugiperda** Smith, 1797 in Abbot and Smith, *Lepidopterous Insects of Georgia* 2: 191, pl. 96 (*Phalaena*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 176, figs. 61, 62. Neotropical; Galápagos: Floreana, San Cristóbal, San Salvador, Santa Cruz
- latefascia** Walker, 1856, *Lepidopterous Insects Br. Mus.* 9: 195 (*Prodenia*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 174, figs. 59, 60. Neotropical; Galápagos: Floreana, Isabela, San Cristóbal, Santa Cruz
- roseae** Schaus, 1923, *Zoologica* 5: 33 (*Trachaea*); Todd 1973, Proc. Entomol. Soc. Wash. 75: 35 (*Trachea*) (type); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 176, figs. 63, 64. Baltra, Floreana, Isabela, Pinta, San Cristóbal, San Salvador, Santa Cruz

#### Genus *Elaphria*

- encantada** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 178, figs. 72, 73, 161, 162. Española, Fernandina, Floreana, Isabela, Pinzón, San Salvador, Santa Cruz

#### Genus *Platysenta*

- mobilis** Walker, [1857] 1856, *Lepidopterous Insects Br. Mus.* 10: 277 (*Perigea*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 178, fig. 71. Neotropical; Galápagos: Isabela, San Salvador, Santa Cruz
- apameoides* auct. (not Guenée); Linsley and Usinger 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 160.
- ruthae** Schaus, 1923, *Zoologica* 5: 35 (*Perigea*); Richards 1941, Hancock Pac. Exped. 5: 237; Todd 1973, Proc. Entomol. Soc. Wash. 75: 35 (*Perigea*) (lectotype); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 179, fig. 68. Baltra, Floreana, Isabela, Pinta, Pinzón, San Salvador, Santa Cruz
- sutor** Guenée, 1852 in Boisduval and Guenée, *Histoire Naturelle des Insectes, Lépidoptères* 5: 231 (*Perigea*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 178, figs. 69, 70. Baltra, Isabela, Pinzón, San Cristóbal, San Salvador, Santa Cruz
- apameoides* Guenée, 1852 in Boisduval and Guenée, *Histoire Naturelle des Insectes, Lépidoptères* 5: 229.
- ebba** Schaus, 1923, *Zoologica* 5: 36 (*Perigea*); Todd 1973, Proc. Entomol. Soc. Wash. 75: 35 (*Perigea*) (type).

#### Genus *Agrotisia*

- williamsi** Schaus, 1923, *Zoologica* 5: 32 (*Harrisonia*); Todd 1973, Proc. Entomol. Soc. Wash. 75: 36 (*Harrisonia*) (lectotype); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 179, fig. 67. Baltra, Española, Floreana, Gardner nr. Española, Isabela, Pinta, San Salvador, Santa Cruz

#### Subfamily ACONTIINAE

##### Genus *Ozarba*

- consternans** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 181, figs. 75–78, 158. Española, Floreana, Pinta, San Salvador, Santa Cruz

##### Genus *Bagisara*

- repanda** Fabricius, 1793, *Entomologia Systematica* 3(1): 462 (*Bombyx*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 181, fig. 81. Neotropical; Galápagos: Isabela

Genus **Eublemma**

- recta** Guenée, 1852 in Boisduval and Guenée, Histoire Naturelle des Insectes, Lépidoptères 6: 245 (*Micra*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 182, fig. 74. Neotropical; Galápagos: Genovesa, Santa Cruz

Genus **Cobubatha**

- numa** Druce, 1889, Biologia Centrali-Americana, Lepidoptera-Heterocera 1: 312 (*Eustrotia*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: i (Addendum following p. 208). Galápagos

Genus **Amyna**

- insularum** Schaus, 1923, Zoologica 5: 37; Todd 1973, Proc. Entomol. Soc. Wash. 75: 36 (lectotype); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 182, figs. 79, 80. Baltra, Española, Fernandina, Floreana, Gardner nr. Española, Genovesa, Isabela, Pinzón, Rábida, San Cristóbal, San Salvador, Santa Cruz, Santa Fé

Genus **Heliocontia**

- margana** Fabricius, 1794, Entomologia Systematica 3(2): 257 (*Pyr-alis*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 182, figs. 82, 83. Neotropical; Galápagos: Baltra, Española, Floreana, Gardner nr. Española, Genovesa, Isabela, San Cristóbal, San Salvador, Santa Cruz

Genus **Spragueia**

- creton** Schaus, 1923, Zoologica 5: 38, pl. 1, fig. 9; Todd 1972, J. Wash. Acad. Sci. 62: 36; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 183, figs. 84-86. Baltra, Española, Floreana, Gardner nr. Española, Genovesa, Isabela, San Cristóbal, San Salvador, Santa Cruz
- plumbeata* Schaus, 1923, Zoologica 5: 38.

Genus **Ponometia**

- indubitans** Walker, 1857, Lepidopterous Insects Br. Mus. 11: 712 (*Nonagria*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 183, figs. 92-94. Neotropical; Galápagos: Gardner nr. Española, Genovesa, Isabela, San Cristóbal, Santa Cruz

## Subfamily EUTELIINAE

Genus **Paectes**

- arcigera** Guenée, 1852 in Boisduval and Guenée, Histoire Naturelle des Insectes, Lépidoptères 6: 312 (*Ingura*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 183, figs. 89-91. Neotropical; Galápagos: Baltra, Floreana, Gardner nr. Española, Genovesa, Isabela, Pinta, Pinzón, San Cristóbal, San Salvador, Santa Cruz, Santa Fé
- indefatigabilis* Schaus, 1923, Zoologica 5: 38; Todd 1973, Proc. Entomol. Soc. Wash. 75: 36 (lectotype).
- isabel* Schaus, 1923, Zoologica 5: 39; Todd 1973, Proc. Entomol. Soc. Wash. 75: 37 (type).

## Subfamily SARROTHRIPINI

Genus *Characoma*

- nilotica** Rogenhofer, 1882, Verh. Zool.-Bot. Ges. Wien. 31: 26 (*Sarrothripa*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 185, figs. 87, 88. Pantropical; Galápagos: Fernandina, San Cristóbal, San Salvador, Santa Cruz

## Subfamily CATOCALINAE

Genus *Mocis*

- incurvalis** Schaus, 1923, Zoologica 5: 41; Todd 1973, Proc. Entomol. Soc. Wash. 75: 37 (lectotype); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 185, figs. 95-97. Baltra, Fernandina, Floreana, Isabela, Pinta, San Cristóbal, Santa Cruz
- latipes** Guenée, 1852 in Boisduval and Guenée, Histoire Naturelle des Insectes, Lépidoptères 7: 314 (*Remigia*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 187, figs. 99, 100. Neotropical; Galápagos: Baltra, Floreana, San Cristóbal, Santa Cruz

Genus *Celiptera*

- remigioides** Guenée, 1852 in Boisduval and Guenée, Histoire Naturelle des Insectes, Lépidoptères 7: 230, pl. 21, fig. 5 (*Ophiodes*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 187, fig. 98. Neotropical; Galápagos: Genovesa, Santa Cruz

Genus *Zale*

- obsita** Guenée, 1852 in Boisduval and Guenée, Histoire Naturelle des Insectes, Lépidoptères 7: 12 (*Homoptera*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 187, figs. 107-110. Neotropical; Galápagos: San Salvador, Santa Cruz
- species (*viridans* group), Richards, 1941, Hancock Pac. Exped. 5: 243.

## Subfamily PLUSIINAE

Genus *Autoplusia*

- egena galapagensis** Schaus, 1923, Zoologica 5: 41 (*Syngrapha*); Todd 1973, Proc. Entomol. Soc. Wash. 75: 37 (*Syngrapha*) (type); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 187, fig. 111. Baltra, Isabela, Pinzón, San Cristóbal, San Salvador, Santa Cruz

Genus *Argyrogramma*

- verruca** Fabricius, 1794, Entomologia Systematica 3(pt. 2): 81 (*Noctua*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 188, fig. 112. Neotropical and Nearctic; Galápagos: Floreana, Isabela, Santa Cruz

Genus *Pseudoplusia*

- includens** Walker, [1858] 1857, Lepidopterous Insects Br. Mus. 12: 914 (*Plusia*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 188, fig. 113. Neotropical; Galápagos: Baltra, Floreana, Isabela, San Cristóbal, San Salvador, Santa Cruz

## Subfamily OPHIDERINAE

Genus *Melipotis*

- acontioides producta** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 190, figs. 101-102. Española, Floreana, Isabela, Santa Cruz
- harrisoni** Schaus, 1923, Zoologica 5: 42; Todd 1973, Proc. Entomol. Soc. Wash. 75: 38 (lectotype); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 191, figs. 105, 106. Baltra, Floreana, Isabela, Pinzón, Rábida, San Cristóbal, San Salvador, Santa Cruz

**indomita** Walker, [1858] 1857, *Lepidopterous Insects Br. Mus.* 13: 1161 (*Bolina*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 190, figs. 103, 104.

Neotropical; Galápagos: Baltra, Española, Floreana, Genovesa, Isabela, Pinta, Pinzón, San Cristóbal, San Salvador, Santa Cruz

#### Genus *Metalectra*

**praecialis** Hübner, 1823, *Exotischer Schmetterlinge* 2: 29, figs. 367–368; Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: i (Addendum following p. 208).

Galápagos

#### Genus *Ascalapha*

**odorata** Linnaeus, 1758, *Systema Naturae*, ed. 10, 1: 505 (*Phalaena Bombyx*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 191, figs. 114, 115.

Neotropical; Galápagos: Floreana, San Cristóbal, Santa Cruz

#### Genus *Letis*

**mycerina** Cramer, 1777, *Uitlandsche Kapellen* 2: 115, pl. 172, fig. B (*Phalaena Attacus*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 191, figs. 116, 117.

Neotropical; Galápagos: Santa Cruz

#### Genus *Rivula*

**asteria** Druce, 1898, *Biologia Centrali-Americana, Heterocera* 2: 497, pl. 95, fig. 25 (*Thalpocharis*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 192, fig. 144.

Mexico; Bolivia; Galápagos: Santa Cruz

**dubiosa** Schaus, 1923, *Zoologica* 5: 44 (*Rivula?*); Linsley and Usinger 1966, *Proc. Calif. Acad. Sci.*, ser. 4, 33: 162; Parkin et al. 1972, *Pan-Pac. Entomol.* 48: 104 (*Elaphria*); Todd 1973, *Proc. Entomol. Soc. Wash.* 75: 38 (*Rivula?*) (lectotype); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 192, fig. 144.

#### Genus *Glympis*

**toddi** Hayes, 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 192, figs. 140, 141.

Floreana, Isabela, Pinta, Santa Cruz

#### Genus *Anomis*

**editrix** Guenée, 1852 in Boisduval and Guenée, *Histoire Naturelle des Insectes, Lépidoptères* 6: 404 (*Gonitis*); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 194, fig. 129.

Neotropical; Galápagos: Floreana, Santa Cruz

**erosa** Hübner, 1823, *Exotischer Schmetterlinge* 2: 19, figs. 287, 288; Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 194, fig. 132.

Neotropical; Galápagos: Floreana, Santa Cruz

**illita** Guenée, 1852 in Boisduval and Guenée, *Histoire Naturelle des Insectes, Lépidoptères* 6: 400; Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 194, fig. 130.

Neotropical; Galápagos: Santa Cruz

**luridula professorum** Schaus, 1923, *Zoologica* 5: 42 (as species); Todd 1973, *Proc. Entomol. Soc. Wash.* 75: 37 (lectotype); Hayes 1975, *Proc. Calif. Acad. Sci.*, ser. 4, 40: 194, fig. 131.

Baltra, Floreana, Genovesa, Isabela, Rábida, San Cristóbal, San Salvador, Santa Cruz



Genus **Plusiodonta**

- clavifera** Walker, 1869, Characters of undescribed Lepidoptera Heterocera, p. 43 (*Tafalla*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 195, figs. 138-139. Neotropical; Galápagos: Santa Cruz

Genus **Gonodonta**

- biarmata evadens** Walker, [1858] 1857, Lepidopterous Insects Br. Mus. 12: 955 (as species); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 195, figs. 136, 137. Fernandina, Floreana, Isabela, Pinta, San Cristóbal, Santa Cruz
- galapagensis* Todd, 1959, Tech. Bull. Agric. Res. Serv. U.S. Dep. Agric. 1201: 20 (*biarmata* subsp.).
- fulvangula** Geyer, 1882 in Hübner, Exotischer Schmetterlinge 4: 32, figs. 737-738; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 195, fig. 135. Neotropical; Galápagos: Santa Cruz

Genus **Metallata**

- absumens contiguata** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 196, figs. 145, 146. Floreana, Isabela, Marchena, San Cristóbal, Santa Cruz

Genus **Bendis**

- formularis** Geyer, 1837 in Hübner, Exotischer Schmetterlinge 5: 26, figs. 903-904; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 196, figs. 133, 134. Neotropical; Galápagos: Floreana, Santa Cruz

Genus **Anticarsia**

- gemmatalis** Hübner, 1818, Exotischer Schmetterlinge, 1: 26, figs. 153-154; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 196, figs. 126-128. Neotropical; Galápagos: Baltra, Fernandina, Floreana, Genovesa, Isabela, Pinta, San Cristóbal, Santa Cruz
- prona** Möschler, 1880, Verh. Zool.-Bot. Ges. Wien 30: 443 (*Thermesia*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 197, figs. 124, 125. Neotropical; Galápagos: Isabela, Santa Cruz

Genus **Psorya**

- hadesia** Schaus, 1923, Zoologica 5: 44; Todd 1973, Proc. Entomol. Soc. Wash. 75: 38 (lectotype); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 197, figs. 119-121. Baltra, Española, Floreana, Isabela, Pinzón, San Salvador, Santa Cruz

Genus **Epidromia**

- zephyritis** Schaus, 1923, Zoologica 5: 43; Todd 1973, Proc. Entomol. Soc. Wash. 75: 38 (type); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 198, figs. 122, 123. Baltra, Floreana, Isabela, Pinzón, San Cristóbal, San Salvador, Santa Cruz
- ztophora** Guenée, 1852 in Boisduval and Guenée, Histoire Naturelle des Insectes, Lépidoptères 7: 326, pl. 23, fig. 5; Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 197, fig. 118. Neotropical; Galápagos: Isabela

Subfamily **HYPENINAE**Genus **Sorygaza**

- variata** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 198, figs. 142, 143, 164, 165. Isabela, Santa Cruz



Genus **Hypena**

- microfulginea** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 201, figs. 147, 148, 157. Floreana, Isabela, San Salvador
- vetustalis** Guenée, 1854 in Boisduval and Guenée, Histoire Naturelle des Insectes, Lépidoptères 8: 35 (*Bomolocha*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 201, fig. 151. Neotropical; Galápagos: Floreana, Isabela, Santa Cruz

Genus **Peliala**

- fulginea** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 204, figs. 149, 150, 166, 167. Floreana, Isabela, San Salvador

Genus **Ophiuche**

- lividalis** Hübner, 1790, Beiträge zur Geschichte der Schmetterlinge 2(4): 86-87, pl. (4) 1, fig. E (*Pyralis*); Hayes 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 204, fig. 152. Cosmopolitan; Galápagos: Floreana
- minualis constans** Hayes, 1975, Proc. Calif. Acad. Sci., ser. 4, 40: 206, figs. 153, 154. Floreana, Isabela, Pinta, Santa Cruz

## Family PYRALIDAE

Genus **Hymenia**

- perspectalis** Hübner, 1796, Schmetterlinge Europäischer; Pyralides: 18, pl. 16, fig. 101; Parkin et al. 1972, Pan-Pac. Entomol. 48: 104. Cosmopolitan; Galápagos: Santa Cruz

Genus **Beeba**

- guglielmi** Schaus, 1923, Zoologica 5: 46; Williams 1930, Pan-Pac. Entomol. 7: 1, figs. 1-4; Parkin et al. 1972, Pan-Pac. Entomol. 48: 105. Baltra, Isabela, Marchena, Pinzón, San Cristóbal, San Salvador, Santa Cruz

Genus **Stemorrhages**

- species (near *lustralis* Guenée) Parkin et al., 1972, Pan-Pac. Entomol. 48: 105. Santa Cruz

## Family CRAMBIDAE

Genus **Euchromius**

- galapagosalis** Capps, 1966, Proc. U.S. Natl. Mus. 119: 5, figs. Baltra

## Family TORTRICIDAE

Genus **Crociosema**

- plebejana** Zeller, 1847, Isis, p. 721; Linsley and Usinger 1966, Proc. Calif. Acad. Sci., ser. 4, 33: 3 (as *C. plebiana*). Baltra, Isabela, Santa Cruz

## Family GELECHIIDAE

Genus **Aristotelia**

- naxia** Meyrick, 1926, Trans. Entomol. Soc. Lond. 74: 277; Parkin et al. 1972, Pan-Pac. Entomol. 48: 105. Floreana, Santa Cruz

## Family BLASTOBASIDAE

Genus **Blastobasis**

- crotospila** Meyrick, 1926, Trans. Entomol. Soc. Lond. 74: 278; Parkin et al. 1972, Pan-Pac. Entomol. 48: 105. San Salvador, Santa Cruz

## Family TINEIDAE

Genus **Trichophaga**

- tapetzella** Linnaeus, 1758, *Systema Naturae*, ed. 10, 1: 536 (*Tinea*); Fernandina, Santa Fé  
Heppner 1975, *Pan-Pac. Entomol.* 51: 30.

## Order DIPTERA

## Family CHIRONOMIDAE

(Ref.: Wirth 1969b)

Genus **Thalassomya**

- longipes** Johnson, 1924, *Zoologica* 5: 86 (*Galapagomyia*). Fernandina, Floreana,  
Santa Cruz  
**pilipes** Edwards, 1926, *Insects of Samoa*, Pt. 6, fasc. 2: 60. Santa Cruz

Genus **Clunio**

- schmitti** Stone and Wirth, 1947, *Proc. Entomol. Soc. Wash.* 49: 217. Fernandina, Santa Cruz

## Family CERATOPOGONIDAE

(Ref.: Wirth 1969b)

Genus **Forcipomyia**

- galapagensis** Coquillett, 1901, *Proc. Wash. Acad. Sci.* 3: 372 (*Ceratopogon*); Wirth 1966, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 373, figs. 1, 2. Baltra, Fernandina,  
Gardner, Isabela, Pinzón,  
Santa Cruz  
*fuliginosa* auct. (not Meigen).  
**genualis** Loew, 1866, *Berl. Entomol. Z.* 9: 128 (*Ceratopogon*); Darwin, Santa Cruz  
Wirth 1969b, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 575.

Genus **Dasyhelea**

- paracincta** Wirth, 1969b, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 576, Santa Cruz  
figs. 4-6.  
**spathicercus** Wirth, 1969b, *Proc. Calif. Acad. Sci.*, ser. 4, 36: 577, Fernandina  
figs. 8-9.

Genus **Culicoides**

- pusillus** Lutz, 1913, *Mem. Inst. Oswaldo Cruz* 5: 52. Santa Cruz

## Family SCENOPINIDAE

Genus **Scenopinus**

- galapagosensis** Kelsey, 1970, *Pan-Pac. Entomol.* 46: 96, fig. 1. Santa Cruz

## Family STRATIOMYIDAE

(Ref.: James 1966b)

Genus **Pelagomyia**

- fasciata** Thomson, 1869, *Freg. Eugenies Resa, Zool.* 1, *Insecta*: 460 Baltra, Floreana, Isabela,  
(*Chrysochlora*); James 1966b, *Proc. Calif. Acad. Sci.*, ser. 4, 33: San Cristóbal, San  
540. Salvador, Santa Cruz  
*dubia* Curran, 1932, *Nytt Mag. Naturvidensk.* 71: 348.  
*albitalus* Coquillett (not Williston), 1901, *Proc. Wash. Acad. Sci.*  
3: 373.

Genus **Nemotelus**

- acutirostris** Loew, 1863, Berl. Entomol. Z. 7: 8; James 1966b, Proc. Calif. Acad. Sci., ser. 4, 33: 537. ?Galápagos: Isabela
- albiventris** Thomson, 1869, Freg. Eugenies Resa, Zool. 1, Insecta: 462; James 1966b, Proc. Calif. Acad. Sci., ser. 4, 33: 536. Darwin, Isabela, Genovesa, Santa Cruz

Genus **Brachycara**

- digitata** James, 1966b, Proc. Calif. Acad. Sci., ser. 4, 33: 537. Santa Cruz

Genus **Dactylodeictes**

- insularis** James, 1966b, Proc. Calif. Acad. Sci., ser. 4, 33: 539. Santa Cruz

## Family TABANIDAE

(Ref.: Philip 1965)

Genus **Tabanus**

- vittiger** Thomson, 1869, Freg. Eugenies Resa, Zool. 1, Insecta: 451; Philip 1965, Ann. Entomol. Soc. Am. 58: 876; Philip 1976, Pan-Pac. Entomol. 52: 84-88. Baltra, Fernandina, Floreana, Isabela, San Bartolome, San Cristóbal, Santa Cruz

## Family SYRPHIDAE

(Ref.: F. C. Thompson 1972, *in litt.*)Genus **Allograpta**

- splendens** Thomson, 1869, Freg. Eugenies Resa, Zool. 1, Insecta: 501 (*Syrphus*). Floreana, San Cristóbal, San Salvador

Genus **Pseudodoros**

- clavatus** Fabricius, 1794, Entomologia Systematica 4: 298 (*Syrphus*). Floreana, Isabela, San Cristóbal, San Salvador
- facialis** Thomson, 1869, Freg. Eugenies Resa, Zool. 1, Insecta: 504.

Genus **Toxomerus**

- crockeri** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, 21: 154 (*Mesograpta*). Floreana, Isabela, San Cristóbal, San Salvador
- duplicata** Coquillett (not Wiedemann), 1901, Proc. Wash. Acad. Sci. 3: 374.

Genus **Xanthandrus**

- species, Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, 21: 155. Pinta
- smithi** van der Goot, 1964, Beaufortia 10: 215 (*Syrphus*). Floreana
- albomaculatus** Smith, 1877, Proc. Zool. Soc. Lond. 1877: 84 (*Syrphus*).

Genus **Palpada**

- vinetorum** Fabricius, 1798, Supplementum entomologiae systematicae, p. 562 (*Syrphus*). Santa Cruz

Genus **Rhysoys**

- agonis** Walker, 1849, List Diptera Br. Mus. 3: 588 (*Syrphus*). "Galápagos"

## Family OTITIDAE

(Ref.: Steyskal 1966)

Genus *Acrosticta*

- apicalis** Williston, 1896, Trans. Entomol. Soc. Lond. 1896: 375 Floreana  
(*Euxesta*).  
*scrobiculata*, Curran (not Loew), 1934, Nytt Mag. Naturvidensk.  
71: 354 (*Acrosticta*).

Genus *Euxesta*

- callona** Steyskal, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 487, fig. 11. Santa Cruz  
*nitidiventris*, Curran (not Loew), 1934, Proc. Calif. Acad. Sci.,  
ser. 4, 21: 156.
- cavagnaroi** Steyskal, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 487, Wolf  
figs. 2, 10a, 10b.
- galapagensis** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, 21: 156; Española, Fernandina,  
Steyskal 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 489, figs. 3a-c. Pinzón, Santa Cruz
- nesiotes** Steyskal, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 490. Pinzón
- notata** Wiedemann, 1830, Auszereuropäische Zweiflügelige Insekten Floreana (?)  
2: 462 (*Ortalis*); Coquillett 1901, Proc. Wash. Acad. Sci. 3: 376  
(recorded from Floreana); Steyskal 1966, Proc. Calif. Acad. Sci.,  
ser. 4, 34: 490 (Galápagos record doubtful).
- phoeba** Steyskal, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 491, fig. 1. Santa Cruz
- schusteri** Steyskal, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 491, Floreana, Isabela  
fig. 12.  
*nitidiventris*, Coquillett (not Loew), 1901, Proc. Wash. Acad. Sci.  
3: 376.
- spodia** Steyskal, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 492, figs. Santa Cruz  
4a-c.

Genus *Pareuxesta*

- academica** Steyskal, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 493, Isabela, Pinzón,  
fig. 8. Santa Cruz
- hyalinata** Coquillett, 1901, Proc. Wash. Acad. Sci., 3: 377. Isabela
- intermedia** Coquillett, 1901, Proc. Wash. Acad. Sci., 3: 377; Stey- Isabela  
skal 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 495, fig. 6.
- latifasciata** Coquillett, 1901, Proc. Wash. Acad. Sci. 3: 376; Stey- Genovesa  
skal 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 495, figs. 5a-c.
- obscura** Coquillett, 1901, Proc. Wash. Acad. Sci. 3: 377; Steyskal Daphne Major (?),  
1966, Proc. Calif. Acad. Sci., ser. 4, 34: 496, fig. 7. Isabela
- xanthomera** Steyskal, 1966, Proc. Calif. Acad. Sci., ser. 4, 34: 496, Santa Cruz  
fig. 9.

## Family EPHYDRIDAE

(Ref.: Wirth 1969b)

Genus *Paratissa*

- semilutea** Loew, 1869, Berl. Entomol. Z. 13: 51 (*Cacoxenus*); Santa Cruz  
Wirth 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 590.

Genus **Psilopa**

- olga** Cresson, 1922, Entomol. News 33: 137; Wirth 1969b, Proc. Santa Cruz  
Calif. Acad. Sci., ser. 4, 36: 591.

Genus **Hydrellia**

- vulgaris** Cresson, 1931, Diptera Patagonia and Southern Chile, pt. Santa Cruz  
6, fasc. 2: 94; Wirth 1969b, Proc. Calif. Acad. Sci., ser. 4, 36:  
591.

Genus **Paralimna**

- obscura** Williston, 1896, Trans Entomol. Soc. Lond. 1896: 391; San Salvador, Santa Cruz  
Wirth 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 591.

Genus **Zeros**

- fenestralis** Cresson, 1918, Trans. Am. Entomol. Soc. 44: 51 Santa Cruz  
(*Ilythea*); Wirth 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 592.

Genus **Philygria**

- galapagensis** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 592. Fernandina, Pinzón,  
Santa Cruz

Genus **Dimecoenia**

- gilvipes** Coquillett, 1901, Proc. Wash. Acad. Sci. 3: 377 (*Ephydra*); Isabela  
Wirth 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 593.

Genus **Scatella**

- galapagensis** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, 21: 161. San Cristóbal

## Family CANACEIDAE

(Ref.: Wirth 1969a, 1969b, 1970)

Genus **Canace**

- cavagnaroi** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 579, Isabela, Pinta, Santa Cruz,  
figs. 10, 11. Santa Fé  
**maritima** Wirth, 1951, Occas. Pap. Bernice P. Bishop Mus. 20: 263. Bartolome  
**snodgrassii** Coquillett, 1901, Proc. Wash. Acad. Sci. 3: 378; Wirth Fernandina, Isabela,  
1970, Proc. Entomol. Soc. Wash. 72: 401. Santa Cruz

Genus **Nocticanace**

- ashlocki** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 589, fig. Santa Cruz  
43-47, 49.  
**cancer** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 586, figs. Pinta  
33, 34.  
**curioi** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 583, figs. Pinta, Wolf  
14, 15, 18-23.  
**darwini** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 585, figs. Fernandina, Genovesa  
24-29.  
**galapagensis** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, 21: 160 Fernandina, Isabela, Pinta,  
(*Procanace*); Wirth 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: Santa Cruz, Wolf  
581, figs. 12, 13, 16, 17.  
**scapanius** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 586, figs. Fernandina  
30-32.

- spinicosta** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 589, Fernandina  
figs. 38, 40-42, 48.
- usingeri** Wirth, 1969b, Proc. Calif. Acad. Sci., ser. 4, 36: 587, figs. Fernandina  
35-37, 39.

Genus **Canaceoides**

- angulatus** Wirth, 1969a, Proc. Calif. Acad. Sci., ser. 4, 36: 556, figs. Pinta, Santa Cruz,  
1, 10, 19, 24. Santa Fé

## Family SPHAEROCERIDAE

(Ref.: Richards 1967)

Genus **Leptocera**

- abdominiseta** Duda, 1925, Arch. Naturgesch. (1924), Abt. A, South America; Hawaii;  
90(11): 52. Galápagos: San Salvador,  
Santa Cruz
- discalis** Malloch, 1912, Smithson. Misc. Collect. 59: 433; Curran Caribbean; Central  
1923, Nytt Mag. Naturvidensk. 71: 355. America; ?Galápagos:  
Floreana
- hirtula** Rondani, 1880, Bull. Soc. Entomol. Ital. 12: 40 (*Limosina*). Cosmopolitan; Galápagos:  
*exigua* Adams, 1904, Kans. Univ. Sci. Bull. 2: 454 (*Limosina*). Fernandina, Santa Cruz,  
*exigella* Spuler, 1925, Can. Entomol. 57: 123. Wolf
- opuntiae** Richards, 1967, Ann. Mag. Nat. Hist., ser. 13, 9: 531, figs. Pinta  
1-3, pl.
- paramoesta** Duda, 1925, Arch. Naturgesch. (1924), Abt. A, 90(11): Western South America;  
194. ?Galápagos

Genus **Sphaerocera**

- varipes** Malloch, 1925, Proc. Entomol. Soc. Wash. 27: 121. Costa Rica; Galápagos:  
*galapagoensis* Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, 21: San Cristóbal  
158.

## Family CALLIPHORIDAE

(Ref.: James 1966a)

Genus **Phaenicia**

- pionia** Walker, 1849, List Dipterous Insects Br. Mus. 4: 880 Floreana, Genovesa,  
(*Musca*); Shannon 1926, Proc. Entomol. Soc. Wash. 28: 115- Santa Cruz  
139 [*Lucilia* (*Viridinsula*)]; James 1966a, Proc. Calif. Acad. Sci.,  
ser. 4, 34: 477, figs. 1-3.
- deceptor** Curran, 1934, Proc. Calif. Acad. Sci., ser. 4, 21: 166 Baltra, Española,  
(*Viridinsula*); James 1966a, Proc. Calif. Acad. Sci., ser. 4, 34: Fernandina, Floreana,  
479, figs. 4, 5. [*Phaenicia* (*Viridinsula*)]. Isabela
- setosa** James, 1966a, Proc. Calif. Acad. Sci., ser. 4, 34: 479, figs. Darwin, Wolf  
6-8 [*Phaenicia* (*Viridinsula*)].

Genus **Cochliomyia**

- macellaria** Fabricius, 1775, Systema Entomologiae: 776 (*Musca*). Española, Floreana,  
*phauda* Walker, 1849, List Dipterous Insects Br. Mus. 4: 896 Isabela, Pinzón, San  
(*Musca*). Cristóbal, Santa Cruz,  
*quadrisignata* Thomson, 1869, Freg. Eugenes Resa, Zool. 1, Santa Fé  
Insecta: 544 (*Lucilia*).



## Order SIPHONAPTERA

## Family RHOPALOPYLLIDAE

Genus **Parapsyllus****cedei** Smit, 1970, Entomol. Berl. 30: 244, figs. 1-3.

Genovesa, Santa Cruz

## Order HYMENOPTERA

## Family FORMICIDAE

Genus **Wasmannia****auropunctata** Roger, 1863, Berl. Entomol. Z. 7: 182 (*Tetramorium?*). Santa Cruz

## Family MUTILLIDAE

Genus **Sphaerophthalma**species, Parkin et al., 1972, Pan-Pac. Entomol. 48: 106 (*Photopsis*). San Salvador

## ANNOTATED BIBLIOGRAPHY OF GALÁPAGOS ENTOMOLOGY—1964–1974\*

- ABS, M., E. CURIO, P. KRAMER AND J. NIETHAMMER. 1965. Ernährungsweise der Eulen auf Galapagos. Ergebnisse der Deutschen Galapagos-Expedition 1962/63. IX. J. Ornithol. 106: 49–57. [Includes record of remains of *Schistocerca* sp. in pellet of Galápagos short-eared owl (*Asio flammeus galapagoensis*) on north side of Santa Cruz Island; insects not important as food for this species.]
- ASHLOCK, PETER D. 1967. A generic classification of the Orsillinae of the World. Univ. Calif. Publ. Entomol. 48: 1–82, figs. 1–18. [*Darwinysius* new genus (p. 42) for *Nysius* (?) *marginalis* Dallas (Galápagos Islands).]
- . 1972. The Lygaeidae of the Galápagos Islands (Hemiptera: Heteroptera). Proc. Calif. Acad. Sci., ser. 4, 39: 87–103, figs. 1–5. [Key to genera with records for 9 species, including *Nysius usitatus* n.sp. (p. 89, figs. 1, 3, Santa Cruz), *Ortholomus usingeri* n.sp. (p. 91, figs. 1, 3, Santa Cruz, Floreana, San Cristóbal), *Darwinysius weinmanensis* n.sp. (p. 95, figs. 2, 3, Wolf), *Pachybrachius nesovinctus* (p. 98, figs. 4, 5, Santa Cruz, Fernandina).]
- ASHLOCK, PETER D. AND JOHN D. LATTIN. 1963. Stridulatory mechanisms in the Lygaeidae, with a new American genus of Orsillinae (Hemiptera: Heteroptera). Ann. Entomol. Soc. Am. 56: 693–703, figs. 1–3. [*Xyonyssius* n.gen. (p. 702), including *Nysius* (*Ortholomus*) *naso* Van Duzee, 1933 (Floreana).]
- AUBERTIN, D. 1934. Revision of the genus *Lucilia* R.-D. (Diptera, Calliphoridae). J. Linn. Soc. Lond., Zool. 38: 389–436. [*Phaenicia pionia* (Walker) (*Musca*), redescription of type, fig.]
- BADONNEL, A. 1971. *Embidopsocus thomtoni* (Psocoptera, Liposcelidae) nouvelle espèce de l'archipel des Galapagos. Nouv. Rev. Entomol. 1: 325–327.
- BANNING, G. H. AND J. S. GARTH. 1933. Hancock expedition of 1933 to the Galapagos Islands. Bull. Zool. Soc. San Diego 10: 1–30. [Popular account of the expedition.]
- BAILEY, S. F. 1967. A collection of Thysanoptera from the Galápagos Islands. Pan-Pac. Entomol. 43: 203–210. [First records of the order from Galápagos: 8 species, 7 non-endemic, one unidentifiable.]
- BASILEWSKY, P. 1968. Les Calosomes des îles Galapagos (Coleoptera, Carabidae). Mission zoologique belge aux îles Galapagos et en Ecuador (N. et J. Leleup, 1964–1965). Résultats scientifiques 1: 179–207, figs. 1–3. [Four species recognized, all assigned to *Castrida*: *C. granatensis* (p. 189) with 3 subspecies, *granatensis sensu stricto* (p. 194) from 11 islands, *darwiniana* (p. 197) from southeastern Isabela, *floreana* n.subsp. (p. 190) from Floreana; *C. leleuporum* n.sp. (p. 200, fig. 2) (Santa Cruz); *C. galapageium* (p. 203) (San Salvador); and *C. linelli* (p. 204) (San Cristóbal).]
- BECKER, PETER. 1975. Island colonization by carnivorous and herbivorous Coleoptera. J. Anim. Ecol. 44: 893–906. [Comparison of species richness on greater Antilles, Galápagos, Madeira-Canaries, Mascarenes and Seychelles with that of nearby mainland areas.]
- BOHEMAN, C. H. 1858–59. Coleoptera. Species novae descriptit, in Kongliga Svenska Fregatten Eugénies Resa omkring Jorden. . . . Zoologus I, Insecta, pp. 1–218, 2 pls. [Add: *Ammophorus denticollis*.]
- BREUNING, S. 1927. Monographie der Gattung *Calosoma* Web. 1. Teil. Koleopterol. Rundsh. 13: 129–132. [*C. galapageium* assigned to subgenus *Callistriga*, with *C. howardi* as a synonym; *C. linelli* assigned to *Microcalosoma* n.subgen.]
- . 1974. Revision des Rhodopini Américains (Cerambycidae: Lamiinae). Stud. Entomol. (n.s.) 17: 1–210. [*Estola insularis* (p. 108), subsp. *cribrata*, *dumcani* and *subnigrescens* (nom. nov. pro *nigrescens*) (p. 109); *Desmiphora maculosa* (p. 145).]
- BRINDLE, A. 1968. A new genus and species of blind Dermaptera from the Galapagos Islands. Mission zoologique belge aux îles Galapagos et en Ecuador (N. et J. Leleup, 1964–1965). Résultats scientifiques 1: 171–176, 2 figs. [*Anophthalmolabis* n.gen. *leleupi* n.sp. (p. 172) (Santa Cruz).]
- . 1969. The earwigs (Dermaptera) of the Galapagos Islands. Entomol. Rec. 81: 331–334, 1 map. [Four species recognized: *Euborellia annulipes*, *Anisolabis maritima*, *Labia arcuata* and *Anophthalmolabis leleupi*; known occurrence in Galápagos mapped.]
- BURR, M. 1910. The Dermaptera (earwigs) of the United States National Museum. Proc. U. S. Natl. Mus. 38: 443–467, 8 figs. [*Anisolabis borsmani* Scudder synonymized with *Euborellia annulipes* (Lucas) (p. 447).]
- CALVERT, PHILIP P. 1901–1908. Odonata. Biologia Centrali-Americana, Insecta, Neuroptera. Pp. v–xxx, 17–420, pls. 2–10, map. [*Cannacria fumipennis* Currie, 1901, synonym of *C. batesii* Kirby, 1889 (p. 326).]
- . 1919. Gundlach's work on Odonata of Cuba: a critical study. Trans. Am. Entomol. Soc. 45: 335–396. [*Libellula herbida* Gundlach, 1889, assigned to *Brachymesia*, with *Cannacria batesi* as a synonym (pp. 365–366).]
- CAPPS, H. W. 1966. Review of the New World moths of the genus *Euchromius* Guenée with descriptions of two new species (Lepidoptera: Crambidae). Proc. U. S. Natl. Mus. 19: 1–9, 8 figs., 1 pl.
- CARIQUIST, S. 1965. Island life. Natural History Press, Garden City, New York. viii+451 pp. [References to Galápagos insects (pp. 180, 181, 218, 219, 224); illustrations of *Deleiphila lineata* (figs. 7–8),

\* Included are some omitted references from the earlier checklist and bibliography.

- Halmenus robustus* and *Schistocerca melanocera* (figs. 9-3).]
- CARPENTER, CHARLES C. 1970. Miscellaneous notes on Galapagos lava lizards (Tropidurus—Iguanidae). *Herpetologica* 26: 377-386, illus. [Attracted to areas where insects abound.]
- CARTWRIGHT, O. L. 1970. A review of the aphodiine beetles of the Galapagos Islands (Coleoptera: Scarabaeidae). *Proc. Biol. Soc. Wash.* 83: 51-58. [Five species recognized: *Diasticus darwini* n.sp. (p. 53), *Ataenius cavagnaroi* n.sp. (p. 55), *A. atramentarius* (synonymy), *A. aequitorialis*, *A. arrowi*.]
- CARVALHO, J. C. M. 1968. (see Carvalho and Gagné, 1968).
- CARVALHO, J. C. M. AND W. C. GAGNÉ. 1968. Miridae of the Galápagos Islands (Heteroptera). *Proc. Calif. Acad. Sci.*, ser. 4, 36: 147-219, 56 figs. [Keys to subfamilies, tribes, genera, species; 22 new species described.]
- CHILDREN, J. G. 1836. Catalogue of Arachnida and insects, collected by Mr. King, surgeon and naturalist to the expedition. Pp. 532-542 in G. Back, Narrative of the Arctic Land Expedition. Paris. [*Physostomum marginatum* (p. 539).]
- CHIU, V. W. D. AND I. W. B. THORNTON. 1972. A numerical taxonomic study of the endemic *Ptyctya* species of the Hawaiian Islands (Psocoptera: Psocidae). *System. Zool.* 21: 7-22. [Includes 3 Galápagos species.]
- COBBEN, R. H. 1965. A new shore-bug from Death Valley, California (Heteroptera: Saldidae). *Pan-Pac. Entomol.* 41: 180-185, figs. 1-3. [*Pentacora sphaelata* recorded from Isla Santa Cruz (p. 182, figs. 2a-f).]
- COLVINAUX, P. A. 1968. Reconnaissance and chemistry of the lakes and bogs of the Galapagos Islands. *Nature* 219: 590-594, figs. 1-7. [Brief reference to notonectids.]
- CRESSON, E. T., JR. 1936. Descriptions and notes on genera and species of the dipterous family Ephydriidae. II. *Trans. Am. Entomol. Soc.* 62: 257-270. [*Canace snodgrassi* Coquillett, designation of lectotype male, Albemarle (p. 264).]
- CURIO, E. 1964. Ueber das Nachtigen von *Nocticanace galapagensis* (Diptera, Canaceidae). *Z. Tierpsychol.* 21: 794-797. [Adults feed during the day on film of organic material covering rocks in the intertidal zone and in the evening assemble in swarms on selected middle-aged crabs (*Grapsus grapsus*).] [See comments by Wirth 1969b: 583.]
- . 1965. Die Schutzanpassungen drier Raupen eines Schwärmers (Lepidopt., Sphingidae) auf Galapagos. Ergebnisse der deutschen Galapagos-Expedition 1962/63. X. [Polychromatism and behavior patterns among larvae of *Erimys ello encantada* and their relation to predation.]
- CURIO, E. AND P. KRAMER. 1964. Vom Mangrovefinken (*Cactospiza heliobates* Snodgrass and Heller). Ergebnisse der deutschen Galapagos-Expedition 1962/63. I. Z. Tierpsychol. 21: 223-234. [Observations on Albemarle reveal that this species, like *C. pallida*, feeds mainly upon insects, spiders, their eggs and larvae, using a stick held in the beak for probing.]
- DELGADO, R. 1975. Diferencias cromosomicas entre *Drosophila* de las Islas Galápagos. *Rev. Univ. Catol.* (Suppl.), Quito.
- DIRSH, V. M. 1969. Acridoidea of the Galapagos Islands (Orthoptera). *Bull. Br. Mus. (Nat. Hist.) Entomol.* 23: 27-51, 75 text figs., 1 map, 1 graph, pls. 1-7. [Revision of the described species with review of their taxonomic status and designations of lectotypes; treated as valid: 2 species of *Schistocerca*, 4 of *Halmenus*, and one each of *Desmopleura*, *Closteridea*, *Sphingonotus*; all names proposed originally as subspecies synonymized; restriction of type-locality for *Oedipoda fuscoirrorata* by Snodgrass rejected.]
- . 1974. Genus *Schistocerca* (Acridomorpha, Insecta). *Ser. Entomol.* 10: 1-238. [*Schistocerca melanocera* (Stål) and *S. literosa* (Walker), synonymy, redescription, distribution, variation.]
- DORST, JEAN. 1969. Robert L. Usinger, 1912-1968. *Noticias de Galápagos* 14: 3. [Necrology.]
- DORST, J. AND J. LARUELLE. 1967. The first seven years of the Charles Darwin Foundation for the Galapagos Isles, 1959-1966. Brussels. 37 pp., 1 fig., 10 pls. [Includes lists of research projects and publications relating to insects.]
- DRAKE, C. J. AND R. C. FROESCHNER. 1967. Lace bugs of the Galápagos Archipelago (Hemiptera: Tingidae). *Proc. Entomol. Soc. Wash.* 69: 82-91, 4 figs. [Includes *Phatnoma eremaea* n.sp. (p. 83, fig. 1); *Corythaica wolfiana* n.sp. (p. 87, fig. 3); *C. darwiniana* n.sp. (p. 89, fig. 4); and *C. cytharina* (fig. 2, records. pp. 84-87).]
- DUDA, O. 1925. Die aussereuropäischen Arten der Gattung *Leptocera* Olivier = *Limosina* Macquart (Dipteren) mit Berücksichtigung der europäischen Arten. *Arch. Naturgesch.*, Abt. A, 90: 5-215, 4 pls. [*L. abdoniseta* n.sp. (p. 52) and *L. paramoesta* n.sp. (p. 194).]
- ECKHARDT, R. C. 1972. Introduced plants and animals in the Galápagos Islands. *BioScience* 22: 585-590. [Reference to fire ant *Wasmannia auropunctata* on Santa Cruz (p. 587).]
- EMMEL, T. C. 1974. 1973 field season summary; zone 10, South America; Ecuador. *News Lepidop. Soc.* 2: 17. [Butterfly collecting in the Galápagos Islands in June and July.]
- ERICHSON, W. F. 1874. Conspectus insectorum coleopterorum quae in Republicae Peruana observata sunt. *Arch. Naturgesch.* 13: 67-185. [*Euparia atramentarius* (p. 110).]
- FENNAH, R. G. 1967. Fulgoroidea from the Galápagos Archipelago. *Proc. Calif. Acad. Sci.*, ser. 4, 35: 53-102, 30 figs., 1 table. [Review of previously known species, 22 new species and one new subspecies described in families Cixiidae, Delphacidae, Tropiduchidae and Issidae.]
- FORBES, W. T. M. 1941. The position of *Utetheisa galapagensis* (Lepidoptera, Arctiidae). *J. N. Y. Entomol. Soc.* 49: 101-110, pl. 1. [Relationships of *U. ornatrix* and *U. galapagensis* within genus discussed; male genitalia of latter figured.]

- FRANCIEMONT, JOHN G. 1951. The species of the *Leucania unipuncta* group, with a discussion of the generic names for the various segregates of *Leucania* in North America (Lepidoptera, Phalaenidae, Hadeninae). Proc. Entomol. Soc. Wash. 53: 57-85, pls. 7-17. [*Pseudaletia* n.gen. (p. 64) (type: *Leucania unipuncta* Haworth): *Cirphis cooperi* Schaus from the Galápagos included.]
- FREUDE, H. 1967. Revision der Epitragini (Col., Tenebrionidae). Entomol. Arb. Mus. G. Frey Tutzing bei Muench. 18: 137-307. [*Perepitragnus fuscipes* Van Dyke, not Latreille, San Cristóbal; =*P. solieri* Casey, Ecuador (p. 238).]
- FROESCHNER, R. C. 1968. Burrower bugs from the Galápagos Islands collected by the 1964 Expedition of the Galápagos Scientific Project (Hemiptera: Cydnidae). Proc. Entomol. Soc. Wash. 70: 192. [*Dallasiella murinus* (new records); *Melanethus subglaber* (Galápagos record questionable).]
- GAGNÉ, W. C. 1968. (See Carvalho and Gagné, 1968).
- GÉHIN, J. 1885. Catalogue synonymique et systématique des Coléoptères de la Tribu des Carabides. Paris. xxxviii + 103 pp., 10 pls. [*Calosoma granatensis* described from "Nouvelle-Granade" (p. 59).]
- GIDASPOW, T. 1963. The genus *Calosoma* in Central America, the Antilles, and South America. Bull. Am. Mus. Nat. Hist. 124: 279-313. [*Calosoma darwiniana* and *C. howardi* included in *C. (Castrida) galapageium*, with record from Genovesa; *C. (Microcalosoma) linelli* regarded as distinct.]
- GILMOUR, E. F. 1966. The Erichson species of *Eburia* and *Eburodachrys* (Coleoptera, Cerambycidae, Cerambycinae, Hesperophanini). Mitt. Zool. Mus. Berl. 42: 163-176, pls. 1-111. [*Eburia pilosa* Erichson (*Stenocorus*) = *E. bauri* Linell = *E. proleptaria* Blair (not Erichson) (p. 164, pl. 1, figs. 1-4).]
- . 1968. The Coleoptera Cerambycidae of Curaçao, Aruba and Bonaire. Stud. Fauna Curaçao Other Caribb. Isl. 25: 83-178, pls. 9-18 [*Heterachthes arubae* n.sp. (p. 146)] [= *H. apicalis* (Blair).]
- GLOGER, H. 1964. Bemerkungen über die Odonaten-Fauna der Galapagos-Inseln nach der Ausbeute von Juan Foerster, 1959. Opusc. Zool. (Muench.) 74: 1-6. [Records for six species; *Anomalagrion hastatum* (polychromatism) (pp. 3-4).]
- HAYES, ALAN H. 1975. The larger moths of the Galápagos Islands (Geometroidea, Sphingoidea and Noctuoidea). Proc. Calif. Acad. Sci., ser. 4, 40: 145-208, 176 figs., frontispiece. [One family (Epiplemidae) new to Galápagos, 13 Geometridae listed, 90 other moths treated (13 Sphingidae, 4 Arctiidae, 72 Noctuidae, 1 Epiplemidae) of which 28 (12 new) are endemic and 16 (5 new) represent subspecies of mainland forms; all but two of known species illustrated in adult stage; male genitalia figured for all but one new species; four additional species from the Galápagos (1 epiplemid, 3 noctuids) listed as addendum without further data.]
- HÉPPNER, J. B. 1975. *Trichophaga tapetzella* Linnaeus in the Galapagos Islands (Lepidoptera: Tineidae). Pan-Pac. Entomol. 51: 30. [Adult reared from skin of dead Galápagos cormorant, Fernandina Is.; also reported from Barrington Is.]
- HERBULOT, C. 1970. Lépidoptères Géométridae des îles Galapagos recueillis par M. et Mme. N. Leleup. Lambillionea 69: 17-25, 3 figs. [Records and descriptions of *Eupithecia leleupi* n.sp. (p. 19, fig. 3), Santa Cruz; *Semiothisa cruciata* n.sp. (p. 21, figs. 4, 5), Santa Cruz; *S. cerussata* n.sp. (p. 23, fig. 1), Santa Cruz; *Thyrinteina infans* n.sp. (p. 24, fig. 2), Santa Cruz.]
- . 1971. Deuxieme note sur les Lépidoptères Géométridae des îles Galapagos. Lambillionea 71: 11-15, 3 figs. [Records of species collected by R. Perry, Tj. de Vries and M. D. Weber, with larval hosts; *Eupithecia perryvriesi* n.sp. (p. 12, figs. 1-4), Santa Cruz, Isabela, San Salvador; *Thyrinteina infans umbrosa* n.subsp. (p. 14), Isabela.]
- HERRING, J. L. 1966. The Anthocoridae of the Galápagos and Cocos islands (Hemiptera). Proc. Entomol. Soc. Wash. 68: 127-130. [*Amphiareus contractus*, *Buchananiella sodalis*, *Cardiasthethus limbatellus*, *Lasiochilus pallidulus*, *Orius tricolor* and *Xylocoris sordidus* recorded from Santa Cruz (the last also from Baltra) along with *Nidicola mazda* n.sp. (p. 129, fig. 2).]
- HURD, M. P. 1945. A monograph of the genus *Corythaica* Stål (Hemiptera: Tingidae). Iowa State Coll. J. Sci. 20: 79-99, 5 figs., 1 pl. [*C. cytharina*].
- JAMES, M. T. 1966a. The blow flies of the Galápagos Islands (Diptera: Calliphoridae). Proc. Calif. Acad. Sci., ser. 4, 34: 475-482, 8 figs. [*Cochliomyia macellaria* recorded from Santa Cruz and Pinzón, *Phaenicia pionia* from Santa Cruz and Genovesa, *P. deceptor* from Española, Floreana, Isabela and Fernandina, and *P. setosa* n.sp. from Darwin and Wolf.]
- . 1966b. The Stratiomyidae (Diptera) of the Galápagos Islands. Proc. Calif. Acad. Sci., ser. 4, 33: 535-542, 1 fig. [Review of previous records; new records; *Brachycara digitata* n.sp. (Santa Cruz) and *Dactyodeictes insularis* n.sp. (Santa Cruz).]
- JEANNEL, R. 1940. The Calosomes. Mem. Mus. Natl. Hist. Nat., Paris, new ser., 13: 1-240. [Only two species recognized from the Galápagos, *linelli* and *galapageium*, both of which are assigned to *Castrida* (elevated to a genus), subgenus *Microcalosoma*.]
- KASZAB, Z. 1970. Coleoptera, Tenebrionidae. Mission zoologique belge aux îles Galapagos et en Ecuador (N. et J. Leleup, 1964-1965), 2: 183-210, 11 figs. [Includes records of 24 species; *Stomion galapagoensis leleupi* n. subsp., Santa Cruz (p. 187, fig. 1); *Ammophorus cavernicola* n.sp., Santa Cruz (p. 192, fig. 3); *Caecomenimopsis* n.gen. (p. 198) *leleupi* n.sp. (p. 199, fig. 8).]
- KELSEY, L. P. 1970. A new *Scenopinus* from the 1964 Galapagos International Scientific Project (Diptera: Scenopinidae). Pan-Pac. Entomol. 46: 96-97, fig. 1. [*Scenopinus galapagoensis* n.sp., Santa Cruz.]
- KELTON, L. A. 1955. Genera and subgenera of the *Lygus* complex (Hemiptera, Miridae). Can. Entomol. 87: 277-301. [Genitalia of *Dagbertus spoliatus* figured.]
- KERNBACH, K. 1964. Die schwärmer einiger Gala-



- pagos-Inseln (II). (Lep. Sphingidae). Mitt. Dtsch. Entomol. Ges. 23: 88. [Adults and/or immature stages of *Protoparce rustica galapagensis* recorded from James (San Salvador); *Erinmys ello encantada*, *Epistor lugubris delanoi* and *Celerio lineata florilega* from Santa Cruz; and *Ptrosis labruscae yupanquii* and *Xylophanes tersa* from Floreana.]
- KERZHNER, I. M. 1968. Insects of the Galápagos Islands (Heteroptera, Nabidae). Proc. Calif. Acad. Sci., ser. 4, 36: 85-91, 7 figs., 1 table. [*Nabis consimilis* (Santa Cruz, Floreana) = *N. punctipennis* auct. not Blanchard; *N. galapagoensis* n.sp. (Santa Cruz, Floreana); *N. reductus* n.sp. (San Cristóbal).]
- LELEUP, N. 1965a. Commentaires sur le sanctuaire zoologique de Galapagos. Africa-Tervuren 11: 85-91.
- . 1965b. Existence d'une faune cryptique rélictuelle aux îles Galapagos. Not. Galapagos 5-6: 4-16.
- . 1968. Introduction. Mission zoologique belge aux îles Galapagos et en Ecuador (N. et J. Leleup, 1964-1965), Résultats scientifique 1: 11-34.
- . 1975. Les implications de l'existence d'éléments rélictuels parmi la faune entomologique cryptique des îles Galapagos. Bull. Ann. Soc. R. Belge Entomol. 112: 91-100.
- . 1976. Les implications de l'existence d'une faune entomologique sénescence variée aux îles Galapagos. Not. Galapagos 24: 18 (abstract).
- LESNE, P. 1901. Revision de Coléoptères de la famille des Bostrychidae. 4<sup>e</sup> Mémoire. Ann. Soc. Entomol. Fr. 69: 473-639, fig. [*Tetrapriocera tridens* (p. 483).]
- LINSLEY, E. GORTON. 1965. Notes on male territorial behavior in the Galápagos carpenter bee (Hymenoptera: Apidae). Pan-Pac. Entomol. 41: 158-161. [*Xylocopa* (*Neoxylocopa*) *darwinii*.]
- . 1969. Robert Leslie Usinger, 1912-1968. Pan-Pac. Entomol. 45: 167-184. [Includes account of Galápagos International Project and references to Hemiptera.]
- . 1976. Galápagos moths. Pan-Pac. Entomol. 52: 262-263. [An analysis of presumed impact of man in accelerating immigration and establishment of moths from the mainland of South America.]
- LINSLEY, E. GORTON AND JOHN A. CHEMSAK. 1966a. Cerambycidae of the Galápagos Islands. Proc. Calif. Acad. Sci., ser. 4, 33: 197-236, figs. 1-28, tables 1-5. [Discussion of endemism and faunal affinities, abundance, natural enemies; redescriptions and photographs of eleven probable and two doubtfully occurring species; also new genera, species and subspecies and new combinations, generic assignments and synonymy.]
- AND ———. 1966b. Cerambycidae of Cocos Island. Proc. Calif. Acad. Sci., ser. 4, 33: 237-248, 8 figs. [Comparison with fauna of the Galápagos; discussion of *Taeniotus hayi* Mutchler, described from the Galápagos but probably endemic to Cocos.]
- AND ———. 1966c. Cerambycidae of the Revilla Gigedo Islands. Proc. Calif. Acad. Sci., ser. 4, 33: 249-254, table 1. [Comparison with faunas of the Galápagos and Cocos.]
- AND ———. 1974. Cerambycidae collected in the Galápagos Islands by Robert Silberglied. Pan-Pac. Entomol. 50: 303-304. [Records for eleven species and subspecies.]
- LINSLEY, E. G., C. M. RICK AND S. G. STEPHENS. 1965. Observations on the floral relationships of the Galápagos carpenter bee. Pan-Pac. Entomol. 42: 1-18, figs. 1-3, tables 1-4. [Records of visits to 60 plant species in 28 families, mostly from Santa Cruz and Floreana; speculation on origin and evolution of *Xylocopa darwini* and role in establishment and evolution of the flora.]
- LINSLEY, E. G. AND R. L. USINGER. 1966. Insects of the Galápagos Islands. Proc. Calif. Acad. Sci., ser. 4, 33: 113-196, 1 table. [History of entomological exploration; list of 618 known species in 395 genera and 129 families; annotated bibliography of publications on Galápagos insects.]
- MALLOCH, J. R. 1925. A synopsis of New World flies of the genus *Sphaerocera* (Diptera, Borboridae). Proc. Entomol. Soc. Wash. 27: 117-123. [*S. varipes* n.sp. (p. 121).]
- MANDL, KARL. 1967. Neue Cicindeliden-Formen in der Sammlung des Museums G. Frey, Tutzing (Col.). Entomol. Arb. Mus. G. Frey, Tutzing Bei Muench. 18: 384-387. [*Cicindela galapagoensis discolorata* n.subsp. (p. 385) (Tower Island) (=Genovesa).]
- MARTINS, U. R. 1967. Ibdionini (Coleoptera, Cerambycinae) XXIV. Divisão do Gênero *Compsa* Perty, 1832. Pap. Avulsos Dep. Zool. (São Paulo) 17: 89-107. [*Neocompsa apicalis* (Blair) (p. 99).]
- . 1970. Monographia da Tribo Ibdionini (Coleoptera, Cerambycinae). Arq. Zool. 16: 1151-1342. [*Heterachthes apicalis* (Blair) (p. 1222).]
- MCATEE, W. L. AND J. R. MALLOCH. 1925. Revision of the American bugs of the reduviid subfamily Ploiariinae. Proc. U. S. Natl. Mus. 67: 1-153, pls. 1-9. [*Ghilianella galapagensis* (p. 100, figs. 167-168).]
- MOULTON, D. AND F. ANDRE. 1936. Four new Thysanoptera, with a preliminary list of the species occurring in Iowa. Iowa State College J. Sci. 10: 223-234, 9 figs.
- NELSON, B. C. 1972. A revision of the New World species of *Ricinus* (Mallophaga) occurring on Passeriformes (Aves). Univ. Calif. Publ. Entomol. 68: 1-175, 43 pls. [*Ricinus marginatus* (Children) (= *Physostomum angulatum* Kellogg (Albemarle, ex *Myiarchus magnirostris*, p. 74-79).]
- PARKIN, P., D. T. PARKIN, A. W. EWING AND H. A. FORD. 1972. A report on the arthropods collected by the Edinburgh University Galapagos Islands Expedition, 1968. Pan-Pac. Entomol. 48: 100-107. [Records of 72 species of insects, including 38 new island records.]
- PATE, V. S. L. 1946. A new wasp from the Galapagos Islands (Hymenoptera: Sphecidae: Pemphili-dini). Pan-Pac. Entomol. 22: 118-120. [*Ectemnius* (*Hypocrabro*) *teleges* n.sp. (p. 118) (Chatham).]

- PAZMINO-MORALES, OLGA E. 1976. Ecología de la hormiga colorada *Wasmannia auropunctata* en la Isla Santa Cruz—Galápagos. Unpublished thesis, Department of Biology, Catholic University, Quito, Ecuador. iii + 34 p.
- PHILIP, C. B. 1965. The identity and relationships of *Tabanus (Neotabanus) vittiger*, with notes on two cases of teratology in Tabanidae (Diptera). Ann. Entomol. Soc. Am. 58: 876–880, 3 figs. [Male described from Santa Cruz; females recorded from Baltra, Floreana, Isabela and Santa Cruz.]
- . 1976. Horse-flies, too, take some victims in cold blood, as on Galapagos Isles. Pan-Pac. Entomol. 52: 84–88. [♀ ♀ *Tabanus vittiger* recorded as biting sea turtles, land tortoises and humans in the Galápagos; localities are cited for occurrence of females on Santa Cruz, San Cristóbal, Isabela, Fernandina, Baltra, San Salvador and Bartolome; male from Floreana.]
- POLHEMUS, J. T. 1968a. A report on the Saldidae collected by the Galapagos International Scientific Project (Hemiptera). Proc. Entomol. Soc. Wash. 70: 21–24, 2 figs. [Two species recorded, including *Saldula galapagosana* n.sp. (Santa Cruz and San Salvador).]
- . 1968b. A new *Microvelia* from the Galápagos (Hemiptera: Veliidae). Proc. Entomol. Soc. Wash. 70: 129–132, 2 figs. [*Microvelia ashlocki* n.sp. (Santa Cruz and Darwin).]
- PORTER, D. M. 1971. Notes on the floral glands in *Tribulus* (Zygophyllaceae). Ann. Mo. Bot. Gard. 58: 1–5. [*Xylocopa darwini* (pp. 4–5).]
- PRICE, DOUGLAS W. 1972. A new Iolinid mite from the Galapagos Islands (Acarina: Iolinidae). Ann. Entomol. Soc. Am. 65: 793–796, 9 figs. [*Anolina lineata* n.sp. (p. 794) described from Santa Cruz on *Shistocerca* sp.]
- PRICE, R. D. AND T. CLAY. 1972. A review of the genus *Austromenopon* (Mallophaga: Menoponidae) from the Procellariiformes. Ann. Entomol. Soc. Am. 65: 487–504. [*Austromenopon popellus* (p. 491, fig. 24), *A. narboroughi* (p. 499, figs. 51–54) and *A. (?) albemarlei* (incertae sedis) (p. 501).]
- PRIESNER, H. 1950. Studies on the genus *Scolothrips* (Thysanoptera). Bull. Soc. Fouad 1<sup>er</sup> Entomol. 34: 39–68, 7 figs.
- REICHART, H. 1970a. Un nouveau coléoptère caribique humicole et avengle des îles Galapagos. Mission zoologique belge aux îles Galapagos et en Ecuador (N. et J. Leleup, 1964–1965), Résultats scientifique 2: 165–169, figs. 1–4. [*Mystroceridius* (n.gen.) *basilewskyi* (n.sp.) (p. 166, figs. 1–4).]
- . 1970b. Bostrichidae (Coleoptera) from the Galapagos Islands. Mission zoologique belge aux îles Galapagos et en Ecuador (N. et J. Leleup, 1964–1965), Résultats scientifique 2: 213–223. [Key to species (p. 215); *Lichenophanes rutilans* n.sp. (p. 216, figs. 1, 2); new records.]
- REMANE, R. 1964. Weiter Beiträge zur Kenntnis der Gattung *Nabis* Latreille (Hemiptera-Heteroptera, Nabidae). Zool. Beir., (n.f.), 10: 253–314. [*Nabis consilimis* recorded from Galápagos.]
- RICHARDS, O. W. 1967. On a collection of Sphaeroceridae (Diptera) from the Galapagos Islands. Ann. Mag. Nat. Hist., ser. 13, 9: 531–539, figs. 1–3, pl. [5 species reported, including *L. (Trachyopella) opuntiae* n.sp. (p. 531, figs. 1–3) (Pinta); key to species (p. 533).]
- RINDGE, FREDERICK H. 1973. The Geometridae (Lepidoptera) of the Galapagos Islands. Am. Mus. Novit. 2510: 1–31, figs. 1–50. [Keys to the known species based upon morphology and maculation, male genitalia, female genitalia; descriptions and figures of adults and genitalia, early stages, food plants and distribution; *Perizoma(?) perryi* n.sp. (p. 20, figs. 10, 44) (Isabela); *Semiothisa cruciata isabelae* n.subsp. (p. 24, fig. 12) (Isabela).]
- ROESCHKE, H. 1900. Carabologische Notizen. V. Entomol. Nachr. 26: 57–63. [*Calosoma galapageium* = *C. granatense* Géhin.]
- ROSS, E. S. 1966. A new species of Embioptera from the Galápagos Islands. Proc. Calif. Acad. Sci., ser. 4, 34: 499–504, 1 fig. [*Chelicercia galapagensis* n.sp. (Pinzón, Wolf, Santa Cruz).]
- SAILER, R. I. 1948. The genus *Trichocorixa* (Corixidae, Hemiptera). Univ. Kansas Sci. Bull. 32: 289–372, pls. xlvii–lxiv. [*Trichocorixa beebei*, n.sp. (p. 306, figs. 48–51, 163, 193 (Tower) = *Trichocorixa* sp. Hutchinson (1931) = *T. reticulata*, Usinger (not Guerin) in Linsley and Usinger 1966: 133.]
- SCHEDL, K. E. 1971. Scolytidae und Platypodidae aus dem Zoologischen Mus. Univ. Kopenhagen (Insecta, Coleoptera). Steenstrupia 1: 145–156. [*Hypothenemus eruditus* (p. 147) (Floreana) *X. gracilis* (p. 149) (Floreana) and *X. torquatus* (p. 149) (Floreana).]
- . 1974. Scolytoidea from the Galapagos and Cocos Islands. 289th contribution to the morphology and taxonomy of the Scolytoidea. Stud. Neotrop. Fauna 9: 47–53. [Key to the species presently known from the Galápagos together with their distribution.]
- SCHUSTER, R. O. AND A. A. GRIGARICK. 1966. A pselaphid beetle from the Galapagos Islands (Coleoptera: Pselaphidae). Proc. Biol. Soc. Wash. 79: 53–56, figs. 1–5 [*Bythinoplectus peregrinus* n.sp. (p. 53) (Santa Cruz).]
- SHANNON, R. C. 1926. Synopsis of the American Calliphoridae (Diptera). Proc. Entomol. Soc. Wash. 28: 115–139. [*Phaenicia (Viridinsula) pionia* (p. 880).]
- SJÖSTEDT, Y. 1932. Orthopteren in Naturhistorischen Reichmuseum zu Stockholm. 2. Acrididae. Ark. Zool., ser. A, 24: 1–89, 20 pls. [Type listed for *Oediopoda fuscoirrorata* Stål.]
- SMIT, F. G. A. M. 1970. A new species of flea from the Galapagos Islands. Entomol. Ber. 30: 244–247, figs. 1–3. [*Parapsyllus cedei* n.sp. (p. 244) (Santa Cruz, Genovesa, ex *Puffinus*, *Oceanodroma*).]
- STANGE, LIONEL A. 1969. Myrmeleontidae of the Galapagos Islands (Insecta: Neuroptera). Acta Zool. Lilloana 25: 187–198, figs. 1–15. [*Dimares nummatum* Navás (1912), Ecuador and Peru, not Galápagos (p. 189); *Brachynemurus darwini* n.sp.]



- (p. 190, figs. 1-8, 15) (Santa Cruz, Santa Fé, San Salvador, Pinzón, Isabela, Pinta, Floreana, Española; *Myrmeleon perpilosus* Banks (p. 196, figs. 9-14) (Santa Cruz, Pinzón, Wolf, Santa Fé).]
- STANNARD, LEWIS J., JR. 1957. The phylogeny and classification of the North American genera of the suborder Tubulifera (Thysanoptera). Illinois Biol. Monogr. 25: 1-200, 144 figs.
- . 1968. The thrips or Thysanoptera of Illinois. Bull. Illinois Nat. Hist. Surv. 29: 215-552, 310 figs.
- STEBBINS, R. C., J. W. LOWENSTEIN AND N. W. COHEN. 1967. A field study of the lava lizard (*Tropidurus albamartensis*) in the Galápagos Islands. Ecology 48: 839-851, figs. 1-3, tables 1-3. [Reference to avoidance of the cerambycid beetle *Eburia lanigera* as food in presence of other choices of insects (moths); thoracic spines of *Eburia* may be a protective factor (p. 850).]
- STEYSKAL, G. C. 1966. Otiitidae from the Galápagos Islands (Diptera, Acalypratae). Proc. Calif. Acad. Sci., ser. 4, 34: 483-498, 12 figs. [Key to genera and species; 7 n.spp. described; new synonymy.]
- THOMPSON, G. B. 1938-39. The Mallophaga (biting-lice) recorded from the Pacific Islands. Entomol. Mon. Mag. 74: 184-187, 202-208; 75: 13-18, 71-76, 120-123, 209-218. [Validity of "straggling" records among Kellogg's accounts of Mallophaga from Galápagos birds questioned; lists include probable "true hosts" for many species.]
- THORNTON, I. 1971. Darwin's Islands: a natural history of the Galapagos. Natural History Press, Garden City, New York. xiv+322 pp., 36 pls., 28 figs., 3 tables. [Insect references in chapters 10, 11, 12, and especially 4.]
- THORNTON, IAN W. B. AND ANITA K. T. WOO. 1973. Psocoptera of the Galápagos Islands. Pac. Insects 15: 1-58, figs. 1-96, tables 1-15.
- TIMMERMANN, G. 1959. Zur Kenntnis der Gattung *Docophorides* Giglioli, 1864 (Insecta, Mallophaga). Mitt. Zool. Mus. Berl. 35: 57-72, figs. 1-7. [Galápagos reference.]
- . 1960. Gruppen-Revision bei Mallophagen. II. Genus *Halipeurus* Thompson 1936. I Teil. Die *Halipeurus*-Arten der "gad-fly-petrels" (genera *Pterodroma* und *Bulweria*). Z. Parasitenkd. 20: 317-334, 16 figs. [*H. noctivagus* n.sp. (p. 331, fig. 13) on *Pt. phocopygia*.]
- . 1962. Neue Zangenläuse (Mallophaga, Philopteridae) von Procellariiformen und Charadriiformen Wirten. Z. Parasitenkd. 21: 426-436, 6 figs. [*Docophoroidea irroratae* n.sp. (p. 435) on *Dio-medea irrorata*.]
- TODD, E. L. 1972. Descriptive and synonymical notes on some species of Noctuidae from the Galápagos Islands (Lepidoptera). J. Wash. Acad. Sci. 62: 36-40, figs. 1-8. [*Spragueia creton* Schaus (= *S. plumbeata* Schaus) (p. 36, figs. 1, 2, 8); *Catabena seorsa* n.sp. (Santa Cruz, Floreana) (p. 38, figs. 3-6).]
- . 1973. The types of some noctuid moths from the Galapagos Islands described by William Schaus in 1923 (Lepidoptera). Proc. Entomol. Soc. Wash. 75: 33-39. [Includes lectotype designations for: *Euxoa williamsi*, *Perigea ruthae*, *Harrisonia williamsi*, *Amyrta insularum*, *Paectes indefatigabilis*, *Mocis incurvalis*, *Anomis professorum*, *Melipotis harrisonii*, *Rivula? dubiosa* and *Psorya hadesia*.]
- TURNER, P. E., JR. 1967. Odonata of the Galápagos Islands. Pan-Pac. Entomol. 43: 285-291, figs. a-j, 1 table. [Taxonomic and distributional data.]
- USINGER, ROBERT L. 1972. Robert Leslie Usinger: autobiography of an entomologist. Mem. Pac. Coast Entomol. Soc. 4: xiii + 330 pp. [Galápagos International Scientific Project (pp. 246-285); Galápagos insects (pp. 273-279).]
- VAN DER GOOT, V. S. 1964. Fluke's catalogue of neotropical Syrphidae (Insecta, Diptera), a critical study with an appendix on new names in Syrphidae. Beaufortia 10: 212-221. [*Syrphus albomaculatus* Smith (not Marquart) (*xanthandrus*) renamed *smithi* (p. 214).]
- VILLIERS, A. 1970. Les Emesines des îles Galapagos. Mission zoologique belge aux îles Galapagos et en Ecuador (N. et J. Leleup, 1964-1965), Résultats scientifique 2: 227-237, 16 figs. [*Ploiaria macrophthalma* (Santa Cruz), *Ghinallelia galapagensis* (Española), *G. leleuporum* n.sp. (p. 231, figs. 2-4) (Santa Fé), *G. wygodzinskiyi* n.sp. (p. 233, figs. 5-9) (Pinta), *G. usingeri* n.sp. (p. 235, figs. 10-16) (Floreana).]
- VIRAKTAMATH, C. A. 1972. A new species of *Austroagallia* Evans from the Galápagos Islands (Homoptera: Cicadellidae). Occas. Pap. Calif. Acad. Sci. 101: 1-4, 8 figs. [*Austroagallia arrhenonigra* n.sp. (p. 2, figs. 1-7) (Santa Cruz); *Agallia mera* Van Duzee = *Austroagallia*.]
- WHEELER, W. M. 1919. The ants of the Galápagos Islands. Proc. Calif. Acad. Sci., ser. 4, 2: 259-297 [not 310].
- WIGGINS, I. L. AND D. M. PORTER. 1971. Flora of the Galapagos. Stanford University Press, Stanford, California. xx+998 pp., 268 figs., 170 maps, 96 illustrations in color. [Insects (pp. 30-31), including *Xylocopa darwini*, *Agraulus vanillae galapagensis*, *Urbanus durantis galapagensis*.]
- WILLIAMS, F. X. 1930. *Beebia guglielmi* Schaus, a pyralid moth borer in the *Opuntia* cactus in the Galapagos Islands. Pan-Pac. Entomol. 7: 1-4, figs. 1-4. [Brief notes on habits; description of female; first records for Isabela, Marchena, Daphne, Pinzón, San Salvador, Baltra.]
- WIRTH, W. W. 1969a. The shore flies of the genus *Canaceoides* Cresson (Diptera: Canaceidae). Proc. Calif. Acad. Sci., ser. 4, 36: 551-570, 35 figs. [Includes *C. angulatus* n.sp. (p. 556, figs. 1, 10, 19, 24) (Pinta, Santa Cruz, Santa Fé).]
- . 1969b. New species and records for Galápagos Diptera. Proc. Calif. Acad. Sci., ser. 4, 36: 571-594, 49 figs. [New records and/or new species of Chironomidae, Ceratopogonidae, Canaceidae and Ephydriidae.]
- . 1970. The American beach flies of the *Canace snodgrassi* group (Diptera: Canaceidae).

Proc. Entomol. Soc. Wash. 72: 397-403. [*Canace snodgrassi* redescribed (p. 401).]

———. 1972. The neotropical *Forcipomyia* (*Microhelea*) species related to the caterpillar parasite *F. juliginosa* (Diptera: Ceratopogonidae). Ann. Entomol. Soc. Am. 65: 564-577, figs. 1-53, table 1. [*F. (M.) galapagensis*, redescription (p. 572, figs. 32-36).]

WYGODZINSKY, P. W. 1966. A monograph of the Emesinae (Ruduviidae, Hemiptera). Bull. Am. Mus. Nat. Hist. 133: 1-614, figs. 1-181, 4 pls., 5 tables. [*Ghinallelia galapagensis* n. comb. (p. 487, 488).]

ZIMMERMAN, E. C. 1969. Francis Xavier Williams, 1882-1967. Pan-Pac. Entomol. 45: 135-146, fig. [Includes brief account of his part in 1905-1906 Galápagos Expedition of the California Academy of Sciences.]